The College Board
The College Board is a mission-driven, not-for-profit organization that connects students to college success and opportunity. Founded in 1900, the College Board was created to expand access to higher education. Today, the membership association is made up of over 6,000 of the world’s leading educational institutions and is dedicated to promoting excellence and equity in education. Each year, the College Board helps more than seven million students prepare for a successful transition to college through programs and services in college readiness and college success—including the SAT® and the Advanced Placement Program®. The organization also serves the education community through research and advocacy on behalf of students, educators, and schools.

AP® College Board’s Equity and Access Policy Statement
The College Board strongly encourages educators to make equitable access a guiding principle for their AP® programs by giving all willing and academically prepared students the opportunity to participate in AP®. We encourage the elimination of barriers that restrict access to AP® for students from ethnic, racial, and socioeconomic groups that have been traditionally underrepresented. Schools should make every effort to ensure their AP® classes reflect the diversity of their student population. The College Board also believes that all students should have access to academically challenging course work before they enroll in AP® classes, which can prepare them for AP® success. It is only through a commitment to equitable preparation and access that true equity and excellence can be achieved.

WE
WE is a movement that empowers people to change the world through a charitable foundation and a social enterprise. Our service learning program, WE Schools, supports teachers’ efforts to help students become compassionate leaders and active citizens, empowering them to take action on the issues that matter most to them. Currently partnered with 16,000 schools and groups, and backed by a movement of 3.8 million youth, we are engaging a new generation of service leaders and providing resources for a growing network of educators.

Our free and comprehensive library of lesson plans is designed to be adapted to meet the needs of any partner school, regardless of students’ grades, socioeconomic backgrounds, or learning challenges. Skills development through the program also increases academic engagement and improves college and workplace readiness. Third-party impact studies show that alumni of the program are more likely to vote, volunteer, and be socially engaged. Learn more at WE.org.

About the Partnership
The College Board and WE share a passion for enriching students’ learning experiences and developing well-rounded citizens. By combining the academic challenge and rigor of AP® with WE’s Learning Framework, AP® with WE Service creates an opportunity for students to consider their classroom work and how it applies to real-world topics, while working closely with their peers to address relevant needs in their local, national, and global communities.

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## Teaching Module: Access to Clean Water

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### Teach

- **Part 1**: Investigate and Learn
- **Part 2**: Action Plan
- **Part 3**: Take Action
- **Part 4**: Report and Celebrate

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### Resources

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### Acknowledgements

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Using This Module

AP® with WE Service provides a collection of resources to support your planning and implementation of the program. This teaching module, Access to Clean Water, is one of two sample lesson guides for AP® Chemistry. As you read through this module, refer to the resources below for additional activities that will support your students’ learning throughout the program.

**Program Guide**

The AP® with WE Service Program Guide contains a robust collection of service oriented activities and resources that support the WE Learning Framework. Use these case studies, news articles, and student activities to supplement and strengthen your students’ understanding and application of core service learning skills.


**WE Resources**

WE offers a library of resources to support you in delivering content on social topics and issues, as well as the tools and the inspiration for your students to take social action, empower others, and transform lives—including their own. An AP® with WE Service Program Manager will support you in planning your instruction with access to the resources that are the right fit for you. Digital Social Issues Sessions will connect your students with a motivational speaker or facilitator to deliver an online workshop on global and local issues and topics. Speakers and facilitators can also be booked for school-wide speeches and smaller group or class workshops on site. Full-day Youth Summits provide immersive issues education and action planning opportunities for students. Throughout the module, you will also see tables of optional activities and resources you can pull into your instruction. WE.org/educator-resources

**Digital Platform**


**How-To Videos**

Also available on the program website are how-to videos that explain what AP® with WE Service is all about, as well as the steps you need to take to get it going in your class. https://apcentral.collegeboard.org/courses/collaborations-with-ap/ap-we-service/teacher-resources/professional-development
Module Sections

The Plan section contains information to help you decide how and when you will fit this module into your AP® curriculum.

PART 1: Investigate and Learn defines and explores the module topic at local and global levels, and within the context of your AP® course curriculum. This will be the majority of your in-class instruction hours and it is where your students will start to make connections between your AP® course content and the module topic.

PART 2: Action Plan guides students as they form teams and begin developing their plan for achieving one local and one global action.

PART 3: Take Action is where students put their plans into action. As they work, they should keep track of what they do and collect artifacts that capture their efforts. During this part, you may need to guide students as they encounter obstacles or help them maintain their motivation.

PART 4: Report and Celebrate describes how students can showcase their projects and share their accomplishments. Presentations and celebrations may be in your class or in the community.
ACCESS TO CLEAN WATER

“Safe water and adequate sanitation underpin poverty reduction, economic growth, and healthy ecosystems. They contribute to social well-being, inclusive growth, and sustainable livelihoods.”

– Secretary-General António Guterres
Getting to Know the Topic

Access to Clean Water: Globally

Clean water isn’t a luxury, it’s a basic human right, and it’s the fastest way to change a life. However, more than 840 million people around the world live without access to safe water and sanitation. In 2015, the UN acknowledged the human right to clean water with Sustainable Development Goal 6—aimed at ensuring the availability and sustainable management of water and sanitation for all—calling upon all countries to support this goal.

Without access to clean water, girls and women waste hours a day fetching water from unsafe, distant sources instead of going to school or earning a livelihood. Families lack access to healthy food sources because their farms fail from droughts. And communities are trapped in the cycle of chronic illness from drinking and using contaminated water. When we tackle the water crisis, we’re also tackling the barriers to education, health care, nutritious food, and opportunity.

Fast facts

► Every year, students miss 443 million school days because of water-related illnesses.
► Women and girls around the world spend over 200 million hours every day collecting water.
► 40% of the world’s population are affected by water scarcity.

Taking Action Globally

How can students take action at school and in their community to improve global access to clean water? Here are some ideas to get them started:

► Host a fundraiser and raise money to help build improved water systems and provide clean water education and water projects.
► Carry out an awareness-raising campaign to educate others about the water crisis.
► Contact government leaders to push efforts for improving access to clean water in developing communities.

Another option is to support and fundraise for the WE Villages program. Students can support this program by visiting WE.org/we-schools/program/campaigns to get ideas and resources for taking action on global water issues.

MORE THAN 840 MILLION PEOPLE AROUND THE WORLD CANNOT ACCESS SAFE DRINKING WATER.

Take your research to the next level!

Check out more info, resources, and stats on global access to clean water at WE.org/ap/global-clean-water.

MORE THAN 840 MILLION PEOPLE AROUND THE WORLD CANNOT ACCESS SAFE DRINKING WATER.
Access to Clean Water: Locally

Water scarcity and water sustainability issues are indeed a global concern, but they also affect us locally. In the U.S., water sources are slowly disappearing.

There are many factors that contribute to the growing scarcity of our water sources, such as climate change and growing populations. Low rainfall also means that aboveground lakes are falling to low levels and even drying up. Almost half of the country’s water basins that supply water to communities are being affected, including the ones that cover the central and southern Great Plains, the Southwest, central Rocky Mountain states and parts of California, the South and the Midwest.

One example is Lake Mead in Nevada, which supplies 90 percent of Las Vegas’s drinking water. It is expected to dry up by 2021. Once depleted, these water sources cannot be replenished.

Fast facts

► Irrigation for farming uses more than 75% of water in the U.S.

► By 2071, 96 out of the 204 water basins supplying most of the U.S. with freshwater could fail to meet monthly demand.

► 14 million U.S. households report that their water bills are too expensive.

Taking Action Locally

Within their local or national community, students can:

► Work with local governments and organizations to learn the reasons for rising water costs and how to make clean water accessible to all.

► Raise funds that support organizations in improving access to clean water.

► Raise awareness through workshops or campaigns to educate others on reducing wasteful water usage.

With both their global and local actions, encourage students to be creative with the ideas they develop through their action plans.

21 MILLION AMERICANS ARE GETTING WATER FROM SYSTEMS THAT VIOLATE HEALTH STANDARDS.

Take your research to the next level!

Check out more info, resources, and stats on local environmental issues at WE.org/ap/local-clean-water.
Taking Action

Global and Local Service Projects

WE Villages

For more than two decades, WE Villages has been engineering an international development model to end poverty. It works. It’s proven. It’s scalable. We partner with developing communities around the world and collaborate on projects and programs that equip families with the tools they need to break the cycle of poverty through our five Pillars of Impact: Education, Water, Health, Food, and Opportunity. These pillars address the five primary causes of poverty with holistic and sustainable solutions that work in tandem to transform communities.

Why Water?

Clean water is the fastest way to transform a life. It’s a critical component in a community’s well-being and success, because it touches every part of our lives.

- With access to clean water, children—especially girls—can go to school instead of spending hours a day fetching water from distant, unsafe sources.
- Clean water improves a community’s overall health because it reduces their chances of getting sick from waterborne illnesses such as typhoid.
- Reliable water sources keep farms and gardens flourishing. Without water, communities cannot irrigate crops or take care of livestock. When drought comes, famine often follows.
- Clean water also ensures women and men can earn a sustainable livelihood. From staying healthy to reducing the time wasted walking for water, parents can spend more time on their businesses to invest in their family’s future.

Every development pillar of WE Villages ties back to water. But how can we make sure that communities are gaining reliable access to the clean water they need?

Global and Local Service Projects

As students develop their service projects with one local and one global action in their plan (some projects can be local and global), they will look to local and global organizations and initiatives for their research and even as potential beneficiaries for their service actions. When selecting an organization—whether local or global—it is important for students to consider its credibility. Students may choose to partner with:

- Charitable or non-profit organizations
- State, national, or governmental departments or organizations (which may not be a traditional charity)
- Social enterprises
- A combination of the above

When students develop service projects to support access to clean water, they are not just quenching someone’s thirst. They are helping to provide wells and clean water systems—the infrastructure that makes long-term change possible so no one in the community ever goes thirsty again. And with a proper clean water system, the community makes gains in every other area of development.
Planning Your Instruction

Access to Clean Water

Purpose
Students will investigate accessibility of “clean” water across the globe. Students will examine physiological, economical, and educational impacts of water pollution on communities. Students will research and analyze a variety of water purification techniques for effectiveness and efficiency. Students will develop and implement their own solutions to local and global issues of access to clean water after analyzing and evaluating several organizational efforts to increase access to clean water.

Ensure students are collecting evidence of their work as they go along. Throughout the year, you may want to collect:

- Photos
- Interviews
- Scripts
- Screenshots
- Posters
- Maps
- Reflections
- Thank you notes

Overview
As presented in the Introduction, this teaching module contains four parts. These are also the four rubric topics you will assess your students on in the digital portfolio:

Part 1: Investigate and Learn: Learn ways that pollutants enter water and the effects of these pollutants on the human body. Investigate how polluted water can be purified based on physical and chemical properties of compounds. Think about effects of conservation efforts by humans to lessen the impact of pollutants on fresh water.

Part 2: Action Plan: Guide students as they form teams, develop their action plans, and reflect on their ideas.

Part 3: Take Action: Provide students with suggestions for how to navigate obstacles, overcome conflicts, record actions, and reflect on their work.

Part 4: Report and Celebrate: Support students as they create portfolios, celebrate their actions, and complete a final reflection on their experiences.

Throughout Parts 1–4, activities that are required for the Recognition Rubric are labeled with an icon (see Icon Legend on page 16). Optional activities that will help students design and complete their service projects, but are not required by the program, are listed in tables throughout each part. These optional activities are available in the AP® with WE Service Program Guide or on the WE website, as indicated in the tables.

Implementation Options
Implementation of this module could begin early in the fall, as soon as Unit 3 is completed. The module continues into Unit 4. Many of the topics may have been introduced in a first-year Chemistry course, which would lead to an earlier implementation for some students. A second implementation option would be to complete the module after the AP Chemistry exam in May, if the school year extends into June.
## Alignment to Course Framework

Based on the 2019–20 AP® Chemistry Course and Exam Description, these are the curriculum components addressed in these lessons:

<table>
<thead>
<tr>
<th><strong>AP® CHEMISTRY CONCEPTS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SCIENCE PRACTICES</strong></td>
</tr>
<tr>
<td>• 6A: Make a scientific claim.</td>
</tr>
<tr>
<td>• 6B: Support a claim with evidence from experimental data.</td>
</tr>
<tr>
<td>• 6D: Provide reasoning to justify a claim using chemical principles or laws, or using mathematical justification.</td>
</tr>
<tr>
<td>• 2A: Identify a testable scientific question based on an observation, data, or a model.</td>
</tr>
<tr>
<td>• 2C: Identify appropriate experimental procedures that are aligned to a scientific question (which may include a sketch of a lab setup).</td>
</tr>
<tr>
<td>• 2D: Make observations or collect data from representations of laboratory setups or results, while attending to precision where appropriate.</td>
</tr>
<tr>
<td>• 2.F: Explain how modifications to an experimental procedure will alter results.</td>
</tr>
<tr>
<td><strong>BIG IDEAS</strong></td>
</tr>
<tr>
<td>• Big Idea 2: Structure and Properties; and Big Idea 3: Transformations.</td>
</tr>
<tr>
<td><strong>ENDURING UNDERSTANDINGS</strong></td>
</tr>
<tr>
<td>• SAP-5: Intermolecular forces can explain the physical properties of a material.</td>
</tr>
<tr>
<td>• SPQ-3: Interactions between intermolecular forces influence the solubility and separation of mixtures.</td>
</tr>
<tr>
<td>• TRA-1: A substance that changes its properties, or that changes into a different substance, can be represented by chemical equations.</td>
</tr>
<tr>
<td><strong>LEARNING OBJECTIVES</strong></td>
</tr>
<tr>
<td>• SAP-5.B: Explain the relationship among the macroscopic properties of a substance, the particulate-level structure of the substance, and the interactions between these particles.</td>
</tr>
<tr>
<td>• SPQ-3.C: Explain the relationship between the solubility of ionic and molecular compounds in aqueous and nonaqueous solvents, and the intermolecular interactions between particles.</td>
</tr>
<tr>
<td>• LO 4.1D: Explain the relationship between macroscopic characteristics and bond interactions for a) chemical process and b) physical process.</td>
</tr>
<tr>
<td><strong>ESSENTIAL KNOWLEDGE</strong></td>
</tr>
<tr>
<td>• SAP-5.B.1: Many properties of liquids and solids are determined by the strengths and types of intermolecular forces present. Because intermolecular interactions are broken when a substance vaporizes, the vapor pressure and boiling point are directly related to the strength of those interactions. Melting points also tend to correlate with interaction strength, but because the interactions are only rearranged, the relations in melting can be subtler.</td>
</tr>
<tr>
<td>• SPQ-3.C.1: The components of a liquid solution cannot be separated by filtration. They can, however, be separated using processes that take advantage of differences in the intermolecular interactions of the components: (a) Chromatography (paper, thin-layer, and column) separates chemical species by taking advantage of the differential strength of intermolecular interactions between and among the components of the solution (the mobile phase) and with the surface components of the stationary phase. (b) Distillation separates chemical species by taking advantage of the differential strength of intermolecular interactions between and among the components, and the effects these interactions have on the vapor pressures of the components in the mixture.</td>
</tr>
<tr>
<td>• TRA-1.D.1: Processes that involve the breaking and/or formation of chemical bonds are typically classified as chemical processes. Processes that involve only changes in intermolecular interactions, such as phase changes, are typically classified as physical processes.</td>
</tr>
<tr>
<td>• TRA-1.D.2: Sometimes physical processes involve the breaking of chemical bonds. For example, the dissolution of a salt in water involves the breaking of ionic bonds, and the formation of ion-dipole interactions between ion and solvent.</td>
</tr>
</tbody>
</table>
Connections to AP® Chemistry Focus Areas

Some content from the AP Chemistry Course Description is identified as more challenging for students based on AP Chief Reader commentary from previous AP Chemistry Exams. This content is referred to as a focus area. Activities that address the following focus areas are highlighted throughout the module.

- Teachers should create opportunities for students to plan investigations that answer their own question. Give students opportunities for open-ended laboratory exercises that allow them to formulate questions, troubleshoot problems, and make appropriate adjustments.
- Test the students’ understanding of experimental error by asking them “what if?” questions.
- Teachers should provide students opportunities to create, analyze, describe, and make predictions using a wide variety of charts, models, and graphs.
- Create lessons and lab experiences that use a mathematical routine of reasoning process to manipulate, interpret, and represent authentic or messy data.
- Perform calculations and work with data.
- Require students to show their work in calculations, stressing the correct units and significant digits.

WE Service Concepts

Based on the WE Learning Framework, here are the particular WE Service concepts addressed in this module.

<table>
<thead>
<tr>
<th>STUDENTS WILL UNDERSTAND THAT...</th>
<th>STUDENTS WILL BE SKILLED AT...</th>
<th>STUDENTS WILL KNOW THAT...</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Social issues are complex, and,</td>
<td>• Working collaboratively in</td>
<td>• AP® course content is relevant</td>
</tr>
<tr>
<td>therefore, research is essential to</td>
<td>teams</td>
<td>to addressing social issues and</td>
</tr>
<tr>
<td>understanding them</td>
<td>Working collaboratively with</td>
<td>topics, and provides knowledge</td>
</tr>
<tr>
<td>• Oftentimes, local and global issues can</td>
<td>community partners (where</td>
<td>toward creating working</td>
</tr>
<tr>
<td>be interconnected</td>
<td>applicable)</td>
<td>solutions</td>
</tr>
<tr>
<td>• Understanding the role of cultural,</td>
<td>• Researching an identified social</td>
<td>• There are organizations working</td>
</tr>
<tr>
<td>social, and economic factors is vital</td>
<td>issue on local and global levels</td>
<td>for social change on the social</td>
</tr>
<tr>
<td>to the development of solutions</td>
<td>• Creating an action plan</td>
<td>issue</td>
</tr>
<tr>
<td>• People have a civic identity, which</td>
<td>• Successfully implementing an</td>
<td>• They have an important role to</td>
</tr>
<tr>
<td>provides opportunities for public action</td>
<td>action plan</td>
<td>play as students, employees,</td>
</tr>
<tr>
<td>• Serving the greater community can</td>
<td>• Educating others (classmates,</td>
<td>volunteers, and as citizens to</td>
</tr>
<tr>
<td>be meaningful for the individual and the community</td>
<td>community partners, school, etc.)</td>
<td>have a positive impact on their</td>
</tr>
<tr>
<td>• Creating social change happens through a set of skills, including creating action plans</td>
<td>about a social issue</td>
<td>local and global community</td>
</tr>
<tr>
<td>• Carrying out an action plan requires personal and group resilience</td>
<td>• Presenting actions and results to wider audiences</td>
<td></td>
</tr>
<tr>
<td>• Individual behavior and decisions toward a social issue impact the larger global context of that issue</td>
<td>• Applying critical thinking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Thinking entrepreneurially</td>
<td></td>
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<tr>
<td></td>
<td>• Demonstrating leadership</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Reflecting on learning about the social issue</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Reflecting on working to create social change</td>
<td></td>
</tr>
</tbody>
</table>

See full WE Learning Framework and details at WE.org/we-schools/program/learning-framework.
As described in the AP® with WE Service Program Guide, the WE Learning Framework identifies the most relevant core skills students will develop as they progress through this module.

Throughout each part of this module, look for these additional icons to identify the following opportunities and notes:

- **Teacher Tip:** Suggestions for ways to implement or modify the activities with students.

- **Focus Area Alert:** Opportunities for students to practice content and skills that are pivotal for improving student performance in the AP® course and on the AP® Exam (see page 14 for a description of the AP® Chemistry Focus Areas addressed in this module).

- **Check for Understanding:** Recommendations for ways to formatively assess student progress and mastery of the content and skills practiced in the activities.

Pay particular attention to activities labeled with the red checkmark icon:

- **Recognition Rubric:** Identifies activities that are required in the Recognition Rubric.
Part 1: Investigate and Learn

Investigate and Learn is divided into the following lessons:
- Lesson 1: Water Contaminants: Their Sources and Effects
- Lesson 2: Water Treatment Methods
- Lesson 3: Where to Go From Here

WE Service Framework

Every student in every AP® with WE Service course will be doing the following as part of their learning and investigation:

1. Learning about the concepts/topic locally and globally within your course context
2. Exploring causes and effects locally and globally
3. Projecting impact for the future on the local community and the world
Overview for Part 1: Investigate and Learn

In this module, students will investigate accessibility of “clean” water across the globe. Physiological, economical, and educational impacts of water pollution on a community will be examined. Students will research and analyze a variety of water purification techniques for effectiveness and efficiency. Evaluation of existing programs focused on access to clean water will lead to identifying areas of unmet needs and student proposals to meet these needs.

Key Takeaways

- Pollutants enter water through many different sources and affect the human body in multiple ways.
- Physical and chemical properties of compounds can be used to purify polluted water.
- Conservation efforts by all humans can lessen the impact of pollutants on the fresh water supply.

Activities:

Lesson 1: Water Contaminants: Their Sources and Effects
- Activity: Identifying Where We Get Our Freshwater
- Activity: Clean Water Crisis

Lesson 2: Water Treatment Methods
- Activity: Distillation of Ocean Water
- Activity: Treatment of Dirty Water

Lesson 3: Where to Go From Here
- Activity: Future Concerns and Solutions

Reflect: Investigate and Learn
- Activity: Making Connections to Students’ Lives
- Activity: Summarizing the Investigation
- Activity: Working Independently
Lesson 1: Water Contaminants: Their Sources and Effects

Activity: Identifying Where We Get Our Freshwater

Guiding Questions: What are some sources of freshwater? How much water do you use? What ways can you cut back on your water usage to lessen the demand on the freshwater supply?

Real World Application: Have students watch “Where We Get Our Fresh Water” (https://youtu.be/Pz6AQXQGupQ). This video describes the sources and availability of freshwater on earth and the ways in which that water is used.

After students view the video, lead a discussion about the information in the video:

- How much of the Earth’s water supply is freshwater?
- Where is this freshwater found?
- Where do we get our freshwater supply?
- What are the major uses of freshwater?
- What ways could our freshwater supply become “dirty” or polluted?
- Aside from direct water use, what other behaviors of yours affect clean water demands? What changes could you make to lessen this demand?

Lead a discussion and evaluation of personal water use. Have students complete a Personal Water Use Chart for a week. As a class, calculate the total water usage for each student for the week, the average water usage for the class, the average daily water usage for the class, and the average daily water usage for the student’s hometown.

Teacher Tip:
Teacher Tip: If pressed for time, have students complete the Personal Water Use Chart for one day, and estimate the rest of the week based on that day.

Focus Area Alert:
Perform calculations and work with data. Require students to show their work in calculations, stressing the correct units and significant digits.

Check for Understanding:
After the class has completed the calculations, have students write a short paragraph to answer the following two questions:

1. Why does your personal water use affect the rest of the globe?
2. What ways might you conserve water on a daily basis?

Assign one or both of the following articles to read for homework in preparation for the next activity.

- “Water Pollution: Everything You Need to Know” (https://www.nrdc.org/stories/water-pollution-everything-you-need-know#causes)
Student Worksheet: Personal Water Use Chart

In the U.S., most of us have access to some of the safest treated water in the world. This is not the case in other parts of the world, where clean water is not as easy as turning on the tap. Water is an important part of our daily lives and we use it for a wide variety of purposes, but do we really understand how much we use?

In this activity, you will track your water use for one week. We will then calculate the average water use in the class and the community in general.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>TH</th>
<th>F</th>
<th>S</th>
<th>S</th>
<th>TOTAL # OF TIMES</th>
<th>ESTIMATED WATER USED (GALLONS)</th>
<th>TOTAL WEEKLY WATER USE (GALLONS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washing face/hands</td>
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<td>Taking a shower</td>
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<td>50</td>
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<tr>
<td>Taking a bath</td>
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<tr>
<td>Flushing a toilet</td>
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<td>5</td>
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<tr>
<td>Brushing teeth</td>
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<td>2</td>
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<tr>
<td>Drinking water</td>
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<td>0.25</td>
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<tr>
<td>Cooking a meal</td>
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<td>3</td>
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<tr>
<td>Washing dishes by hand</td>
<td></td>
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<td></td>
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<td></td>
<td>10</td>
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<tr>
<td>Washing dishes using dishwasher</td>
<td></td>
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<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washing a load of laundry</td>
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<td>30</td>
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<tr>
<td>Washing car</td>
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<td>50</td>
<td></td>
<td></td>
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<tr>
<td>Watering lawn</td>
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<td>300</td>
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</tr>
</tbody>
</table>

Average Weekly Water Use Class ____________________
Average Daily Water Use Class ____________________
Average Daily Water Use Town ____________________

In some parts of the world, water is not readily available and you would have to walk miles to a well to retrieve water to use in your home. Would you be willing to walk to a well and carry all the water you would need for a day back to your home?
Activity: Clean Water Crisis

Once students have read the articles “The Flint Water Crisis: What’s Really Going On?” and/or “Water Pollution: Everything You Need to Know,” lead a class discussion.

- Explain how Flint, Michigan, ended up with polluted, undrinkable water.
- What are the physiological dangers to humans of being exposed to lead in their drinking water?
- What methods were enacted to treat the contaminated water?
- What other ways is water being polluted? What are the sources of these pollutants?

Divide the class into three working groups: ground water, surface water, and polar regions. Have students jigsaw their research of each region for clean water. Have each group answer the following questions:

- What are the major water pollutants in the region?
- What effects do these pollutants have on human health?
- What are the sources of these pollutants?
- What factors limit access to clean water in this region?

Allow anywhere from 45 minutes to two days. Encourage students to be specific. For example, if they say a source of the pollutant is industry, ask them to be specific as to which industry. Once groups have completed their research, provide poster/butcher paper and markers and have students share their information with the class. Remind students to record their sources.

Teacher Tip:
Hang the posters in a place where they will remain visible for future reference.

Check for Understanding:
Have students complete the Problem Tree to investigate the issue of pollutants and their sources.
Problem Tree

In your Problem Tree graphic organizer, start by writing the problem at the center of the tree, and then look at the causes and effects of an issue. Keep digging to go deeper on the issue to find its supporting and root causes. Use this as one tool to explore the causes and effects of food insecurity.

**LEAVES/BRANCHES: EFFECTS**
These are the results created by the problem. At first, this part of the issue appears easy to tackle, but when leaves and branches are trimmed, they grow back quickly. Consider the multi-layered effects, or “effects of effects,” that can arise when a problem goes unaddressed. Always ask: “Then what happens?”

**TRUNK: PROBLEM**
This is the key issue that is being studied. Because it is not as apparent as the leaves, the core problem itself sometimes takes a little longer to identify.

**ROOTS: CAUSES**
These are the situations or factors that have led to the problem. When exploring the root causes of a problem, ask yourself “Why does this problem exist?” Dig deeper to consider the “causes of causes” — the multiple layers of factors that contribute to a problem.
**Student Worksheet: Clean Water Crisis**

As you complete your research, complete the charts below. You will be able to fill in the rest of the chart as groups share the information they have gathered. Be sure to cite your sources.

What are the major water pollutants in the region?

<table>
<thead>
<tr>
<th>Ground Water</th>
<th>Surface Water</th>
<th>Polar Region</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

What effects do these pollutants have on human health?

<table>
<thead>
<tr>
<th>Ground Water</th>
<th>Surface Water</th>
<th>Polar Region</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

What are the sources of these pollutants? (Industry, agriculture, natural minerals, etc.)

<table>
<thead>
<tr>
<th>Ground Water</th>
<th>Surface Water</th>
<th>Polar Region</th>
</tr>
</thead>
<tbody>
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</table>

What factors limit the access to clean water in this region?

<table>
<thead>
<tr>
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<th>Surface Water</th>
<th>Polar Region</th>
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</thead>
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</table>

**Focus Area Alert:**

Teachers should provide students opportunities to create, analyze, describe, and make predictions using a wide variety of charts, models, and graphs.
Lesson 2: Water Treatment Methods

Activity: Distillation of Ocean Water

Remind students that over 70 percent of the Earth is water, but most of that 70 percent is found in the oceans. What would need to happen in order for ocean (salt) water to be usable as a clean water source?

Review separation techniques that students have already used in the class: filtration, magnetism, chromatography, etc. Discuss why these separation methods would not be effective to separate salt from the water. Students may have evaporated water to recover salt from a mixture in the past. You can find a sample activity here: https://www.youtube.com/watch?v=ppMdfnt80NE. Remind them of this activity and discuss if this procedure would prove to be helpful here. Try to get students to recognize the need to collect that steam and re-condense it back to liquid water. Discuss if this method would be useful in tapping into a new source of clean water from the oceans.

After the discussion, explain the separation technique of distillation. An example of this process can be found here: https://www.khanacademy.org/test-prep/mcat/chemical-processes/separations-purifications/v/simple-and-fractional-distillations. Demonstrate the simple distillation setup to students. Have them describe the process from beginning to end. Using the student handout on the next page, lead a distillation activity and assign each group a different purpose for their data collection (conductivity, percent of mass collected, percent volume collected). Have students determine what quantitative data they must collect to accomplish the purpose.

Prepare a sample of “sea water” by dissolving 8.0g of NaCl in 1.0L water to be used in the lab.

Have student groups share their data and results with the class. Discuss the pros and cons of using the distillation process to provide clean water from ocean water. Remind students that in addition to salt, Ocean water contains other elements. This should be considered when discussing the pros and cons.

After the activity, for homework have students research the methods of desalinating water that are currently used in the world as well as their cost effectiveness.

Teacher Tip:
To collect a quantitative measurement for conductivity, a Vernier Labquest and a conductivity probe can be used. Be sure to check students’ data collection plans before they begin to provide suggestions and to ensure proper collection technique ideas for data collection.

Focus Area Alert:
Require students to show their work in calculations, stressing the correct units and significant digits.

Check for Understanding:
Answer the Conclusion Questions:
1. What methods of desalinization are used throughout the world today?
2. Is this process an effective means of purifying sea water? Support your answer with data.
Student Worksheet: Distillation of Ocean Water

A majority of water on the Earth is undrinkable for humans since it is found in the oceans. Humans cannot drink salt water, but saline water can be made into freshwater. The process is called “desalination.” Desalination uses a separation technique known as distillation. Distillation is as simple as boiling a salt water mixture, collecting the steam, and cooling it to return it to its liquid state.

This procedure sounds simple enough, but is it really? And is it a good procedure to create a reliable and cost-effective clean water source?

In this activity, you will set up a simple distillation apparatus to purify a sample of sea water and to collect data to determine if this procedure is an effective means of purifying water.

Before beginning the procedure, determine with your lab group what data you want to collect to determine the effectiveness of the cleaning procedure of the water. Keep in mind that you are trying to determine if this is effective on a large scale to provide clean water to parts of the world that do not have a source. Get your teacher’s approval of your data collection plan before beginning the procedure.

**MATERIALS:** 250mL Erlenmeyer flask, rubber stopper fitted with rubber tubing, 600mL beaker, test tube or other collection container for the “clean” water, ring stand (tripod), wire gauze, Bunsen burner, boiling stones, sample of sea water

**Procedure:**

1. Create a data table to record data in a clear manner.
2. Obtain a sample of sea water and pour it into a 250mL Erlenmeyer flask and add several boiling chips. Stopper the flask with a 1-holed stopper fixed with a glass tube. Attach a rubber hose to the glass tube.
3. Place the flask on the wire gauze that is supported on a ring stand. Place a Bunsen burner under the platform.
4. Place the test tube or other collection container in the 600mL flask that is filled with an ice water bath.
5. Place the end of the rubber tubing into the collection container.
6. Light the Bunsen burner and GENTLY heat the flask with the sea water inside. Make sure you watch so that the flask does not overflow and to be sure that pressure does not build up in the collection container.
7. Continue to heat the flask until the desired amount of water has been collected.
8. When finished heating, turn off the burner and allow all materials to cool before taking any measurements.
9. Gather data and calculate results. Share results with the class.

**Conclusion Questions:**

1. What methods of desalinization are used throughout the world today?
2. Is this process an effective means of purifying sea water? Support your answer with data.
Activity: Treatment of Dirty Water

Prior to the activity, have students watch the video, “Water and You: The Water Treatment Process,” ([https://youtu.be/KMP9-49I1U4](https://youtu.be/KMP9-49I1U4)) or a similar video on the water treatment process for clean drinking water. After watching the video, review the steps of the treatment process, and discuss what is preventing this or similar water treatment process in all parts of the world.

Complete a class KWL chart on water treatment.

- **K** - What do you Know about water treatment systems? What things will you need to keep in mind for a system in remote areas of the world?
- **W** - What do you Want to know about low-cost and low-maintenance systems that can be used in remote parts of the world?
- **L** - What did you Learn about water treatment systems?

Have students spend time working in groups to research crude water filtration systems that can clean water with common materials. Add this information to the “L (Learn)” part of the chart.

Direct students that they are to design and construct their own filter using the information they gathered as a class. Once filtered, the clean water should be tested for conductivity, odor, turbidity, and pH. You will provide 2-liter plastic bottles cut in half horizontally to use as the funnel (1 per group), fine nylon mesh or cheese cloth, rubber bands, plastic spoons, stirring rods, filter paper or large coffee filters, cotton balls or cotton gauze, sand, small pebbles, activated charcoal, aquarium aerator, measuring cups, and bleach. Prepare the polluted water 1–2 days ahead of the activity, about 200mL for each group, by mixing any or all of the following: green food coloring, soil, organic material (grass, fruit skins), dish detergent, vinegar, salt, small pieces of paper, or any other material you feel is needed.

**Teacher Tip:**
In doing their research, students may discover methods for cleaning water that require different materials than those provided. You may restrict students to the given materials, or you may provide any materials you have on hand.

Have each group draw a diagram of their proposed filter and have them explain why they chose each material before beginning the construction. After each group has filtered their given amount of dirty water, test each sample for appearance, odor, conductivity, and pH.

**Focus Area Alert:**
Teachers should create opportunities for students to plan investigations that answer their own question. Give students opportunities for open-ended laboratory exercises that allow them to formulate questions, troubleshoot problems, and make appropriate adjustments.

**Teacher Tip:**
If time allows, have students redesign their filter after they have seen all the other groups in order to improve their final result. This will reinforce the engineering process.

**Check for Understanding:**
Have students modify their filter and explain how they would modify the filter for better results.
Student Worksheet: Treatment of Dirty Water

In the space below describe the polluted water as thoroughly as possible.

Draw your filter system in the space provided.

List the materials used in the filter and their use.

<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>USE IN FILTRATION PROCESS</th>
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</thead>
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<tr>
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</tbody>
</table>
In the space below describe the filtered water as thoroughly as possible.

How would you modify your filter for better results? Draw the new filter below.
Conclusion Questions:

1. Did the filter work as well as you expected? Explain why or why not.

2. Is the filtered water clean enough to use for bathing? Explain why or why not.

3. Is the filtered water clean enough to drink or use to cook with? Explain why or why not.

4. What would need to be done to make the water “cleaner”?
Lesson 3: Where to Go From Here

Activity: Future Concerns and Solutions

Show the short film “Project 22” (www.youtube.com/watch?v=B0ky-VMi9fl) to get students to think about developing solutions to address the issue of reasonable access to clean water.

Ask students to engage in an Internet search to begin developing an understanding of specific issues related to access to clean water. This is best done by having students search for organizations that are working to combat this issue. These organizations may be governmental or nongovernmental, and you may wish to guide students to search for organizations that are not-for-profit. Students should use the Needs Assessment Worksheet to carry out an analysis. Have students use the Solution Tree Organizer found in the student workbook to keep track of current solutions to combat the issue of access to clean water. Explain how to go from the center of the Solution Tree organizer to the more specific details.

Encourage students to revisit and work in parallel with their Problem Tree, which can help ensure that their solutions are addressing actual problems. They should keep track of any sources they used to fill out the graphic organizer.

Teacher Tip:
When completing the Solution Tree, have students evaluate advantages, disadvantages, and unintended consequences of each solution. Be sure to emphasize how chemistry can be part of the solution for providing clean water.

Check for Understanding:
As students work, check to be sure that they are accurately analyzing each organization and determining ongoing needs to address the issue.

Independent Practice:
For homework, students could write a one-page report that describes their Needs Assessment findings on one organization. The report should include the following:

- A description of the social issue at local and global levels
- The mission/vision of the organization
- A description of two of the organization’s existing programs
- An exploration of the outcomes of the organization’s programs
- Cite your resources

Where to Go From Here:
- Organization Needs Assessment (AP Chemistry student workbook)
- Solution Tree (AP Chemistry student workbook)
Solution Tree

In your Solution Tree graphic organizer, start by rewriting the problem from your Problem Tree, and reframing it as a goal at the center of the tree. Then consider the different solutions (the roots) and possible outcomes of the solutions (the branches).

**LEAVES/BRANCHES: OUTCOMES**
These are the results created by the solution. Results may appear as straightforward as having achieved goals, but when you consider the ripple effects and outcomes of sustainable results, the impact is far-reaching and long-lasting. Always ask: “Then what happens?”

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**TRUNK: PROBLEM**

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**TRUNK: GOAL**

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**ROOTS: SOLUTIONS**
These are the actions needed to solve the problem and achieve the goal stated at the center of the solution tree. When exploring solutions, ask yourself “How will this solve the problem?” Dig deeper to think holistically, so that you are looking beyond the short-term and addressing not only the symptoms of the problem but the root causes as well.

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Reflect: Investigate and Learn

Activity: Making Connections with Students’ Lives

Provide opportunities for students to think about and record their individual and collective learning as they progress through the activities. Students should answer the following reflection question to prepare for Part 2: Action Plan: How can what you are learning in your AP® Chemistry class support solutions that improve access to clean water?

As they write, the following questions can help students shape their reflections:

- What are the social impacts of lack of access to clean water?
- As you investigated existing programs addressing water access, what did you feel these programs do well, and what did you feel they could do better?
- Who should be responsible for improving water access both locally and globally?
- Based on what you learned about your local and global issue and the actions others are already taking, what are five areas of need that you could address?
- What attracts you to these areas?
- What are some actions that you could take to address this issue?
- What excites you about these actions and the impact you can have?
- How can what you are learning in your AP® Chemistry class support solutions that improve access to clean water?

Now that you have investigated problems and potential solutions associated with access to clean water, think back over what you have learned: How can what you are learning in your AP® Chemistry class support solutions that improve access to clean water?

Activity: Summarizing the Investigation

As part of their service project, students should summarize their learning to educate their classmates on the issue they have identified and investigated related to the topic of access to clean water. Select an appropriate format for students to complete their summary. For example, students may make class presentations, design posters to hang in the classroom, write blog posts to share with the class, etc. Summaries may be supported by multimedia or print materials that synthesize and analyze the topic and issue on local and global levels.

When summarizing their investigation, students should keep in mind the following:

- What are the key takeaways from your investigation of the issue of access to clean water?
- How are the problems you investigated similar at local and global levels? How are they different?
- How are the solutions you investigated similar at local and global levels? How are they different?
- Why may your investigation be important to other AP® Chemistry students?

Alternative Approach:

Students are invited to hold an educational event or campaign to raise awareness about the social issue they have studied, which could compel their class (or community) to action. Students should consider what format they would like to use, based on their action. It may be a public speech at their school or in their community, a newspaper article, a website, a social media campaign, a short story, an artistic display, etc.
Activity: Working Independently

Now have students independently complete an adaption of Free Response Question #4 from the 2017 AP® Chemistry exam, which addresses the content in this module. The question, shown below, is available as a student handout in the appendix of this module. Use the scoring guidelines found on the AP® Central website to assess student performance and provide feedback on any misconceptions or misunderstandings.

Independent Practice
Check individual student understanding of the content and skills from the lesson.

2017 Free Response #4

A student investigates various dyes using paper chromatography. The student has samples of three pure dyes labeled A, B, and C, and an unknown sample that contains one of the three dyes. The student prepares the chromatography chamber shown above on the left by putting a drop of each dye in the identical position on the chromatography paper (polar material) and standing the paper in a non-polar solvent. The developed chromatographs are shown above on the right.

a. Which dye (A, B, or C) is the least polar? Justify your answer in terms of interactions between the dyes and the solvent or the dyes and the paper.

b. Which dye is present in the unknown sample? Justify your answer.
Understanding Approaches to Taking Action

Every great plan begins with establishing clear goals. In preparation for the next section of the module, have students consider different types of actions their team might take. There are three approaches, generally speaking, to taking action:

- **Direct service**: Personally engaging with and providing hands-on services to those in need (usually in conjunction with an organization).
- **Indirect service**: Channeling resources to the needs of a community—locally, nationally, or internationally.
- **Advocacy**: Educating others about an issue to increase visibility and follow up with an action that focuses on enacting change.

### DIRECT SERVICE

**WHAT IS IT?** Personally engaging with and providing hands-on service to those in need (usually in conjunction with an organization).

**EXAMPLE GOAL** Participate in a local waterway cleaning event to remove trash and organic debris.

**ACTIONS**
- Reach out to local organizations to volunteer for local cleanup days.
- Invite other student groups (Environmental Club, Science Club, student government) in the school to attend as well.
- Once the date has been set, make sure all students have signed permission forms.

### INDIRECT SERVICE

**WHAT IS IT?** Channeling resources to the needs of a community—locally, nationally, or internationally.

**EXAMPLE GOAL** Organize a Water Walk. Have students at the school calculate their water usage for one day and carry that amount of water weight for a three-mile route to raise awareness of water usage and the hardships others face in gaining access to clean water. Students will raise money to donate to an organization specializing in providing water wells to areas that need them.

**ACTIONS**
- Research organizations that dig wells in remote areas.
- Gain permission from the school administration to hold the event around the school track.
- Plan time and place.
- Publicize the event in the school to encourage participants.
- Distribute and collect pledge forms and monies.
- Set the track with markers for distance.
- Gather weights to carry, and backpacks or similar carrying containers.
- Organize volunteers to help with the start and finish.

### ADVOCACY

**WHAT IS IT?** Educating others about an issue to increase visibility and following up with an action that focuses on enacting change. Actions around advocacy often look like raising awareness, but without a strong call to action within the initiative as a whole. Educating others is not considered service in and of itself.

**EXAMPLE GOAL** Educate the community about the Clean Water Act, Safe Drinking Water Act, or other legislative acts involving clean water on the local level, and sponsor a letter writing campaign to members of congress to continue to support these acts and the funding to maintain compliance.

**ACTIONS**
- Research important aspects of the legislative acts, including the level of funding.
- Create educational materials to inform people of these acts or reach out to organizations that could provide the needed materials.
- Set date and secure permission from local businesses to set up an informational table in front of their business or at your school.
- Write sample letters for people to complete and sign.
- Send letters to the proper legislature.
Part 2: Action Plan

The Action Plan section is divided into four parts:

- Connect Learning
- Form Teams
- Develop Action Plan
  - Goal Setting
  - Understanding Approaches to Taking Action
  - Determining Clarity and Relevance of Goals
  - Measuring Success
  - Setting S.M.A.R.T. Goals
  - Identifying Resources and Creating a Network
  - Developing a Timeline
- Reflect

WE Service Framework
Overview for Part 2: Action Plan

Students apply the knowledge they acquired through the Investigate and Learn lessons to develop a plan through which they will address one local and one global service action. Encourage students to retain all of their AP with WE Service work.

Key Takeaways

- Completing a service action requires a set of skills, including working as a team and creating action plans
- Action plans involve setting goals, identifying measurements of success, creating a timeline for each task, assigning specific responsibilities to each team member, and preparing to network with others to complete tasks
- Three approaches to completing a service action are direct service, indirect service, and advocacy

This Section Contains:

- Tables containing optional activities that you may choose to use with your class to deepen student understanding of particular elements of action planning
- Templates that all students should complete to help them successfully meet the recognition criteria
Connect Learning

Activity: Determining Interests

As a class, discuss the following:

- What issues related to your topic do you hear about on the news or read in newspapers and online articles? Why do you think these stories are covered by the media?
- What issues related to your topic do you think the general public is not aware of? Why do you think they are unaware?
- What issues related to your topic really bother you, even if you do not know a lot about them? Why are you bothered by these issues?
- If you were a world leader, what kinds of problems related to your topic would you tackle?

Teacher Tip:
Support students in determining their personal interests by incorporating an activity in which they think back to the problems and solutions they identified in Part 1: Investigate and Learn. Have students brainstorm the global and local issues they feel are most important and personally interesting to them.

Form Teams

Students will work in recommended teams of four to six to plan and carry out their AP® with WE Service projects. Each team will decide on one local and one global action, and then create a plan that details how the actions will be achieved. Since each team will focus on a particular action, encourage students to form teams based on their interest in working on similar local and global issues. The more inspired and passionate students are about the issue they identify around the topic of access to clean water, the more creative they will be with the actions they develop. In order for students to pick teams, have students present the local and global issues they are interested in, then join forces with other students who are addressing similar issues.

Teacher Tip:
- When students first meet with their team, encourage them to create a contract so all members have a clear understanding of their own role and responsibilities, as well as those of the other members on the team. This will help to identify and establish group norms, including a plan and process for conflict resolution.
- Create a spreadsheet that the teacher can fill in with group members, including module (of choice), columns for check-ins, numbers and agencies worked with. Teacher can also add a column to grade as each piece is completed.
- Instead of emphasizing skills and talents, ensure students are grouped based on the issue that is most important to them.
- If a big group forms around one issue, have students break into two groups and ensure they design different action plans on the same topic.
## Resources to Support Forming and Working in Teams

<table>
<thead>
<tr>
<th>RESOURCE AND DESCRIPTION</th>
<th>HOW TO USE THIS RESOURCE</th>
<th>WHERE TO FIND IT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gift + Issue = Change</strong></td>
<td>Use this activity to help students think about how they might individually contribute to an action that they feel passionate about.</td>
<td>WE.org/ap/giftissuechange</td>
</tr>
<tr>
<td><strong>Finding Passion with the Issue Compass</strong></td>
<td>This interactive activity can be used to align students into action teams according to their interests and talents.</td>
<td>WE.org/ap/issuecompass</td>
</tr>
<tr>
<td><strong>Article: Volunteerism—Today’s MBA for Tomorrow’s Entrepreneurs</strong></td>
<td>What does entrepreneurship have to do with service? Use this article as a conversation or thought starter as a class or amongst teams as they begin to brainstorm and develop their action plan.</td>
<td>WE.org/globalvoices/volunteerism-todays-mba</td>
</tr>
<tr>
<td><strong>Exploring the Four Leadership Styles</strong></td>
<td>Use this activity to help students better understand their individual strengths and the strengths of their teammates. By giving each person the power to be a leader, no one person will feel the burden of being responsible for the entire project.</td>
<td>WE.org/ap/fourleaderstyles</td>
</tr>
</tbody>
</table>

## Resources to Support Collaborating as a Team

<table>
<thead>
<tr>
<th>RESOURCE AND DESCRIPTION</th>
<th>HOW TO USE THIS RESOURCE</th>
<th>WHERE TO FIND IT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Creating a Safe Space</strong></td>
<td>Use this activity to help teams create guidelines around the way they interact and make decisions as a team.</td>
<td>WE.org/ap/safespace</td>
</tr>
<tr>
<td><strong>Drafting a Team Contract</strong></td>
<td>Use the contract to help students identify and establish group norms, including a plan and process for conflict resolution. This is both a key skill that students will learn, and a proactive approach to problem-solving within a team environment. Use the results from the Exploring the Four Leadership Styles activity to help determine roles and responsibilities of each student in the group.</td>
<td>WE.org/ap/teamcontract</td>
</tr>
<tr>
<td><strong>Practicing Positive Teamwork and Conflict Mediation</strong></td>
<td>Use this tip sheet and worksheet to help students understand conflict mediation techniques and the power of constructive feedback to keep team dynamics positive and ensure their teammates feel supported and appreciated.</td>
<td>WE.org/ap/conflictmediation</td>
</tr>
<tr>
<td><strong>Establishing Roles and Responsibilities</strong></td>
<td>Use this activity to share with students how they can divide and conquer major areas of responsibility and the roles they can each assume to make their service project both personally fulfilling and an overall success.</td>
<td>WE.org/ap/roles</td>
</tr>
</tbody>
</table>
After students have formed their teams and written a contract, the next step is for teams to build out an action plan that (1) identifies team goal(s), (2) establishes their metrics of success, (3) identifies their network and required resources, and (4) creates a timeline for completing their actions by sequencing necessary tasks and identifying individual roles and responsibilities.

Teacher Tip:
Be sure teams create goals that are specific and measurable. In addition to meeting the Recognition Rubric requirements, this will allow students to report on the impact of their project in Part 4: Report and Celebrate.
Goal Setting

Each team must create a goal for the team’s action. This goal will need to (1) be clear, measurable, and informed by the team member’s needs assessment, (2) incorporate one global and one local action, and (3) achieve direct service, indirect service, or advocacy. Help students generate and decide on a team action goal using the following activities.

Understanding Approaches to Taking Action

Every great plan begins with establishing clear goals. But first, help students understand the types of actions their team might take through their action project. There are three approaches, generally speaking, to taking action:

- **Direct service:** Personally engaging with and providing hands-on services to those in need (usually in conjunction with an organization).
- **Indirect service:** Channeling resources to the needs of a community—locally, nationally, or internationally.
- **Advocacy:** Educating others about an issue to increase visibility and follow-up with an action that focuses on enacting change.

Resources and Ideas to Support Selecting a Type of Service

<table>
<thead>
<tr>
<th>RESOURCE AND DESCRIPTION</th>
<th>HOW TO USE THIS RESOURCE</th>
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<tr>
<td><strong>Tips on Developing Direct Service Action Ideas</strong>&lt;br&gt;Get ideas and resources on how to personally engage with and provide hands-on services to those in need (usually in conjunction with an organization).</td>
<td>Use the following resources to show students how to create their own ideas or connect with existing ones that they can expand on: &lt;ul&gt;&lt;li&gt;Tips on Developing Direct Service Action Ideas&lt;br&gt;WE Volunteer Now Campaign&lt;/li&gt;&lt;/ul&gt;</td>
<td>WE.org/ap/directservice</td>
</tr>
<tr>
<td><strong>Tips on Developing Indirect Service Action Ideas</strong>&lt;br&gt;Get ideas and support on how to channel resources to the needs of a community—locally, nationally, or internationally.</td>
<td>Use the following resources to show students how to create their own ideas or connect with existing ones that they can expand on: &lt;ul&gt;&lt;li&gt;Tips on Developing Indirect Service Action Ideas&lt;br&gt;WE Go Green campaign&lt;br&gt;WE Scare Hunger campaign&lt;br&gt;WE Are Rafikis campaign&lt;br&gt;WE Create Change campaign&lt;/li&gt;&lt;/ul&gt;</td>
<td>WE.org/ap/indirectservice</td>
</tr>
<tr>
<td><strong>Tips on Developing Advocacy Action Ideas</strong>&lt;br&gt;Get ideas and resources on how to educate others about an issue to increase visibility and how to follow-up with an action that focuses on enacting change.</td>
<td>Use the following resources to show students how to create their own ideas or connect with existing ones that they can expand on: &lt;ul&gt;&lt;li&gt;Tips on Developing Advocacy Action Ideas&lt;br&gt;Developing a Deep Understanding of Your Issue, and Messaging Your Message&lt;br&gt;Ensuring Message Credibility&lt;br&gt;Spreading the Word (Communications Strategies and Communications Plan Worksheets and Templates)&lt;br&gt;Practice, Practice, Practice&lt;br&gt;WE Are Silent campaign&lt;/li&gt;&lt;/ul&gt;</td>
<td>WE.org/ap/advocacy</td>
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</table>
### DIRECT SERVICE

**WHAT IS IT?**
Personally engaging with and providing hands-on service to those in need (usually in conjunction with an organization).

**EXAMPLE GOAL**
By the end of the semester, we will support a local food bank and shelter by packing and serving food to people in the community. We will also visit our neighboring elementary school and teach a lesson on food insecurity in our community.

**ACTIONS**
- Reach out to local shelters and food banks to arrange a day for the class to visit and provide hands-on support
- Once a date has been decided, make sure students all have permission to travel to the food bank (if during school hours)
- Connect with teachers/administration at local elementary school and arrange to visit a classroom to teach a lesson to young students on food insecurity
- Create and print worksheets to use with younger students

### INDIRECT SERVICE

**WHAT IS IT?**
Channeling resources to the needs of a community—locally, nationally, or internationally.

**EXAMPLE GOAL**
By the end of the year, we will create a storage and donation system for local families in need, where they can access furniture and other household items. We will develop a system for donations, pick-ups, and inventory.

**ACTIONS**
- Conduct research into which items are most needed by community members (i.e., bed frames, dining tables, household goods, etc.)
- Reach out to local businesses to try to get a storage space donated
- Connect with school social workers/administration to gain their support
- Put up flyers around school and in the community, asking for donations (list specific items needed), including instructions on how/where to donate
- Develop an online database for tracking donations and pick-ups, and maintaining inventory
- Share pick-up information with local shelters, churches, community centers, etc.
- Share the donation system with school social workers, so that they can maintain the project in future years

### ADVOCACY

**WHAT IS IT?**
Educating others about an issue to increase visibility and following up with an action that focuses on enacting change. Actions around advocacy often look like raising awareness, but without a strong call to action within the initiative as a whole. Educating others is not considered service in and of itself.

**EXAMPLE GOAL**
Through an informative art piece, we will educate our school community about the waste created by single-use plastic water bottles, and the impact they have on the environment. Then, we will sell reusable water bottles at school, and the proceeds from the sale will go toward clean water projects in developing countries.

**ACTIONS**
- Research the impact of single-use plastic water bottles around the school and in local community
- Plan out and create a 3D sculpture that incorporates informative text on the issue of single-use plastics
- Seek permission from school administration to display the piece in a common area of the school
- Design and order water bottles to sell at school
- Research and select an international organization that focuses on clean water projects
- Organize a selling schedule for the water bottles, donate profits
Determining Clarity and Relevance of Goals

In their teams, students should now begin to home in on their goal(s) for their action plan. Setting effective goals is a more difficult skill than most people imagine, but once students learn to employ one or more techniques for developing clear goals, it will serve them in all endeavors. Have students split up into their action teams and instruct them to brainstorm actions they would like to take, sharing from their personal reflections from the previous section, and drawing from their previous investigation and research, along with the needs assessment and reflections. Encourage students to use the 5Ws (what, where, when, why, who, and how) to express their overarching goal(s) and to be as clear and specific as they can.

As they write drafts of their goal(s), they should ask themselves the following questions to assess the clarity and effectiveness of their goal:

- Is this goal specific enough so that we know exactly what our team will accomplish?
- Can we measure whether or not this goal was fully accomplished?
- Is it achievable within our project period?
- Is it relevant to the social issue we are aiming to address?
- Do we know the deadline by which it will be accomplished?

Measuring Success

As part of goal setting, establishing Measurements for Success is an important way of knowing if the goal has been achieved. Take time to discuss measurement in a bit more detail. Measurement is an aspect of the goal-setting exercise that students should understand before they begin executing an action plan. Students will need to understand how they will measure positive outcomes so that they understand what success looks like and how they will know they have achieved their goal. Is it based on the number of people they have reached through their actions? This will require teams to keep track of numbers. Or are they also looking at how the individuals reached have been affected? A survey with written answers (or multiple choice options) could do the trick. Share with students that measuring success can take two forms:

- Qualitative data is usually descriptive data that provides insights into what/how people think or feel. Qualitative data is harder to analyze than quantitative data.
- Quantitative data usually provides a numbers-based measurement (with associated units) such as quantity, amount or range.

Teacher Tip:

Have teams define quantitative and qualitative data sets for their action plan; then brainstorm a list of each that applies to their action project. Remind students that establishing their criteria for success and the corresponding metrics is an ongoing process. As they dive deeper into their action planning and execution, it will become clearer for students what kind of data they will need and how they will obtain it. The information may be collected by multiple team members. However, it is good to designate at least one person to any (and each) of the methods on their list.
Setting S.M.A.R.T. Goals

A S.M.A.R.T. goal is Specific, Measurable, Attainable, Relevant, and Time-bound.

Before your group starts their campaigns or actions, you’re going to need a good plan. By having a plan, you will have the means to establish a defined goal and a reliable way to reach that goal. Brainstorming ideas will allow you to determine clarity and relevance for your service project. Your criteria will serve as a guideline to ensure that you have a way to evaluate your outcome and see whether or not you’ve achieved what you set out to do. So whether your group is trying to hit a particular fundraising total, organize a huge event with a certain number of attendees, or reach a target audience with awareness-raising speeches, you’ll want to start with a goal and a plan. The surest way to do this? Build a S.M.A.R.T. goal.

Resources on Goal Setting

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<tr>
<th>RESOURCE AND DESCRIPTION</th>
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<tbody>
<tr>
<td>Determining Clarity and Relevance of Goals</td>
<td>Use this activity to help students sort through all the ideas they will come up with before they home in on the goal around which they will develop their action plan.</td>
<td>WE.org/ap/plangoals</td>
</tr>
<tr>
<td>Establishing S.M.A.R.T. Goals</td>
<td>S.M.A.R.T. goals help students ensure that their team sets a “right-sized” and relevant goal to guide their action planning throughout this experience. This skill set, once learned, is one that students can apply to a myriad of other challenges and settings.</td>
<td>WE.org/ap/smartgoals</td>
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</table>

Resources and Ideas to Support Measurements of Success

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<tbody>
<tr>
<td>Creating Measurements of Success</td>
<td>Help students understand the difference between qualitative and quantitative data, and how to go about creating and establishing the right measures of success for each team’s project.</td>
<td>WE.org/ap/measuresuccess</td>
</tr>
<tr>
<td>Collecting Evidence and Artifacts</td>
<td>Use this resource to help students determine the type of data they need to collect, and then how they can go about gathering the info they need. The data and information students gather will feed into their team executive summary at the end of the overall module.</td>
<td>WE.org/ap/collectionevidence</td>
</tr>
<tr>
<td>Creating Surveys and Feedback Forms</td>
<td>Use this resource to show students how they can create their own surveys and feedback forms by considering all the relevant data and information they will need. Sample surveys and forms will provide further guidance.</td>
<td>WE.org/ap/feedbackforms</td>
</tr>
</tbody>
</table>
Identifying Resources and Creating a Network

As students develop their goals and measures of success, they will start to identify what they need to execute their action plans. This will include creating connections with people, such as within (but not limited to) the school, your community, different organizations and businesses, topic experts and speakers, media outlets, the blogging/social media community, etc. These people will serve as supporters and amplifiers, as well as providers of information and resources.

For this latter part, students will need to identify the resources they need to accomplish their goals. This can include (but is not limited to):

- Facts and statistics (found through research or materials from other organizations)
- Tools and supplies (this list can be endless, but may include things like card stock, paint, tables, chairs, microphones, water buckets and sponges, labeled boxes to collect items, collection jars, etc.)
- Stories of individuals who benefit from the services of the organization
- Access to space and/or venues
- Methods and resources for producing necessary materials or media

Developing a Timeline

A key to success in action planning is developing a careful timeline. Not only will it help students allot the appropriate time to each task and keep them on track, but breaking up a large task or action into smaller, more manageable tasks will help them address all the necessary details in a timely fashion.

Teacher Tip:
Emphasize to students that timelines are meant for them to have a date to work toward. When they begin working with organizations the timelines will need to be flexible.

Resources to Support Identifying Resources and Creating a Network

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<tr>
<td>Creating a Timeline</td>
<td>This activity will help students allot the appropriate time to each task and keep them on track. It will also help them break up a large task or action into smaller, more manageable tasks to effectively help them address all the necessary details in a timely fashion.</td>
<td>WE.org/ap/timeline</td>
</tr>
<tr>
<td>Identifying and Sequencing Tasks</td>
<td>This activity will help students think about each step of their action project and how to plot each step as an actionable task in a timeline.</td>
<td>WE.org/ap/tasksequence</td>
</tr>
<tr>
<td>Identifying Task Owners</td>
<td>Use this activity to show students how to effectively divide tasks amongst team members. Some tasks will be a part of each individual’s overall role and responsibilities, and some will be based on personal interests, skills, and strengths.</td>
<td>WE.org/ap/taskowners</td>
</tr>
<tr>
<td>Identifying Resources and Creating a Network</td>
<td>Use this activity to help students create a networking map to help them keep track of the people they will be working with through their action plan. They can also document the resources they will need to access, either through their network or as an item they will need to source separately.</td>
<td>WE.org/ap/network</td>
</tr>
</tbody>
</table>
Activity: Creating the Action Plan

After working as a team to identify team goals, establish metrics of success, determine their network and required resources, create a timeline for completing their actions, and identify individual roles and responsibilities, students are ready to put all their ideas in writing. By creating an action plan, all team members are committing to support their team in carrying out the proposed project(s).

**Teacher Tip:**
Have students create the local action plan first, complete the hours, and then have them complete a separate plan for their global hours.

Have students use the Creating an Action Plan worksheet, found in the Student Workbook, to help build out their action plan.

Have students use the Avoiding the Five Action Planning Pitfalls Tip Sheet to review common mistakes made during action planning and to ensure these have been avoided.
Reflect

After completing their action plan, students should individually reflect on their teamwork and action planning thus far. Teams should then share their plan, describe how the project addresses the topic at local and global levels, and make connections to the AP® course.

Activity: Reflecting on Action Plan

Provide students with questions to help them reflect on their experiences working as a member of a team and creating an action plan.

- What is the topic that your team is taking action on? Why is this topic important to you? Why is this topic important to your team?
- What action is your team planning to take? How does this action fulfill an opportunity identified in your needs assessment?
- What are you most passionate and excited about in your action plan?
- Why is goal setting so important, and how can you imagine using goal-setting techniques in your life, future action plans, or other activities? How does your action goal relate to your AP® course?
- What kinds of leadership qualities do you hope to develop as you continue to take action?
- Why is teamwork so essential to carrying out effective service projects to address local and global issues?
- Having planned to make a difference on local and global issues, what have you learned about your ability to create social change?

Check for Understanding:

Through this reflection, students should highlight why the topic is important to them, how they can make a contribution, why certain aspects of action planning (such as goal setting) are important life and academic skills, what connections they have made to their AP® course, and what they have learned so far.

Teacher Tip:

As part of their AP® with WE Service project, students will need to track their work. Look ahead to Part 4 to review and share expectations with students so that they are keeping records, taking photos, collecting documents, tracking data.

Teacher Tip:

Educating others about their local and global issue is a great way for students to share their learning. Invite teams to hold an educational event or campaign to raise awareness about the social issue they have studied, which hopefully will have the power to compel their class (or community) to action. Students should consider what format they would like to use, based on their action. It may be a public speech at their school or in their community, a newspaper article, a website, a social media campaign, a short story, an artistic display, etc. It is also a great way to share the ideas they have developed in their action plan and how they will take action on the issue. This is not the action in itself but rather the education on the issue and the action plan.
Resources to Support Deeper Reflection and Educating Others

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<tr>
<td>Perfecting the Elevator Pitch</td>
<td>Use this activity to help students create the proper “elevator pitch” for their project as they think about how to create a compelling message about what they have learned about their issue and what they will do about it.</td>
<td>WE.org/ap/elevatorpitch</td>
</tr>
<tr>
<td>Developing a Deep Understanding of Your Issue and Messaging Your Message</td>
<td>Use this activity and case study to show students how to think critically about their issue as they learn to ask informed and thoughtful questions, and assess the gaps in their knowledge and the information they need to know.</td>
<td>WE.org/ap/messaging</td>
</tr>
<tr>
<td>Ensuring Message Credibility</td>
<td>Use this activity to have students run three checks on the credibility of their message: creating an annotated bibliography, fact checking their message, and presenting to the class for a peer-review and question period.</td>
<td>WE.org/ap/messagecredibility</td>
</tr>
<tr>
<td>Spreading the Word</td>
<td>Use this activity to have students brainstorm various communications methods and assess each one’s effectiveness. Then, they will develop a communications plan around their selected method to detail who their message is intended for, how the message will be communicated, and when it will be delivered.</td>
<td>WE.org/ap/spreadtheword</td>
</tr>
<tr>
<td>Practice, Practice, Practice</td>
<td>Use this activity and case study to have students read, listen to, or watch some examples of famous speeches to identify how the speaker uses the three I’s — Influence, Involve, and Inspire — with their audience.</td>
<td>WE.org/ap/practice</td>
</tr>
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</table>

Your team now has a plan for taking action globally and locally. Think back over what you have learned: What problems associated with your topic does your team’s action plan address? How does your individual role in the plan support your team’s action? Discuss as a group or class.

- What is the topic that your team is taking action on? Why is this topic important to you? Why is this topic important to your team?
- What action is your team planning to take?
- How does this action fulfill an opportunity identified in your needs assessment?
- What are you most passionate and excited about in your action plan?
- Why is goal setting so important, and how can you imagine using goal-setting techniques in your life, future action plans, or other activities? How does your action goal relate to your AP® course?
- What kinds of leadership qualities do you hope to develop as you continue to take action?
- Why is teamwork so essential to carrying out effective service projects to address local and global issues?
- Having planned to make a difference on local and global issues, what have you learned about your ability to create social change?

Use the Reflect: Action Plan worksheet in the Student Workbook to reflect on what you have learned.
Part 3: Take ACTION

The Take Action section is divided into two parts:

- Connect Learning
- Re-Inspire and Reflect

WE Service Framework

INVESTIGATE AND LEARN  ACTION PLAN  TAKE ACTION  REPORT AND CELEBRATE

________________________  RECORD AND REFLECT  ____________________
Overview for Part 3: Take Action

As students take action, they will be equipped with tools to navigate obstacles, mitigate conflicts, collect evidence, and record their actions, while also learning how to maintain their drive and inspiration. Encourage students to retain all of their AP with WE Service work.

Key Takeaways

- Effective teamwork is strengthened through abilities to navigate obstacles and overcome conflicts.
- The impact of an action can be measured by the collection of evidence and recording actions.
- Re-inspiration is important when caught up in the details.

This Section Contains:

- Templates that all students should complete to help them successfully meet the recognition criteria
- Tables containing optional activities that you may choose to use with your class to deepen student understanding of particular elements of taking action, effective teamwork, and recording actions

Resources on Determining Effective Teamwork, Navigating Obstacles and Overcoming Conflicts

In Part 3: Take Action, you will use these resources to help students with practicing positive teamwork, navigating obstacles and planning for contingencies as they begin to take action.

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<tr>
<td>Ezra Frech’s Story</td>
<td>Ezra’s story—both a video and an article—highlights perseverance and tenacity. On losing his leg and gaining a transplanted thumb, he says, “And this hasn’t slowed me down at all!” He is his school’s starting quarterback and can shoot hoops for days.</td>
<td>WE.org/ap/ezrafrech</td>
</tr>
<tr>
<td>Practicing Positive Teamwork and Conflict Mediation</td>
<td>Use this tip sheet and worksheet to help students understand conflict-mediation techniques and the power of constructive feedback to keep team dynamics positive and ensure their teammates feel supported and appreciated.</td>
<td>WE.org/ap/conflictmediation</td>
</tr>
<tr>
<td>Navigating Obstacles</td>
<td>Help students gain a better understanding of how others have successfully navigated and overcome obstacles using this case study on Spencer West, a motivational speaker and author of Standing Tall: My Journey, which underscores teamwork and focus on goals.</td>
<td>WE.org/ap/casestudy-navigatingobstacles</td>
</tr>
<tr>
<td>Planning for Contingencies</td>
<td>This activity helps students work through the process of proactively identifying potential issues and considering practical solutions so that they can plan ahead.</td>
<td>WE.org/ap/activity-contingencyplan</td>
</tr>
</tbody>
</table>
Activity: Student Log Sheet

In addition to the information, artifacts, analyses, and reflection pieces that you collect and complete, you will need to keep track of time spent on your action projects, reflect on your experiences, and collect the appropriate verification where needed. As you reflect, some of the things you may think about include:

- What did you accomplish today?
- What (if any) were the major successes or big wins?
- How can you build on these successes?
- What (if any) were the setbacks, minor or major?
- What is your plan to mitigate or resolve these issues?
- What do you plan to accomplish tomorrow/next class/next meeting?
- How are you feeling about the progress of the action so far?
- Did you collect the qualitative data you set out in your action plan? What are the testimonials telling you so far (if applicable)? Are there any tweaks or changes you need to make with your action plan?
- Did you collect the quantitative data you set out in your action plan? What are the numbers telling you so far (if applicable)? Are there any tweaks or changes you need to make with your action plan?
- What is still missing and how will you get the information you need?
- How did your team pull together? What were your teamwork successes? What conflicts or obstacles did you resolve or overcome? How can you be stronger as a team?

Have students use the Student Log Sheet, found in the Student Workbook, to help record and keep track of their activities and reflections.
Re-Inspire and Reflect

In the process of carrying out an action, team members will often lose inspiration or momentum. Help students reconnect with their original motivation for taking action to empower them as change-makers. Individually, ask students to reflect on their own story as someone who is interested in changing the world through action. Provide them with the following questions to reflect on their story as an agent of change.

Activity: Reflecting on Take Action

Provide students with questions to help them reflect on their experiences of taking action as a team.

- How will you continue the work that you and your team started with this project?
- Changing the world is hard work, and a lot of fun too! What are the top three lessons you have learned during your service project?
- What is your story as an agent of change?

Resources on Re-Inspiration

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<tr>
<td><strong>My Story As a World-Changer</strong>&lt;br&gt;Every story has a beginning; the spark that ignited a passion, a moment that changed everything. Craig Kielburger’s story also began with a spark that ignited the WE movement.</td>
<td>Use this activity as inspiration to have students write down their own stories as world-changers.</td>
<td>WE.org/ap/mystory</td>
</tr>
<tr>
<td><strong>Craig Kielburger’s Story</strong>&lt;br&gt;When Craig first learned about child labor at the age of 12, there was no way for him to get involved and make real change as a kid. So he set out on his own to free children from poverty and exploitation, but freed his peers at home from the idea that they had to wait to change the world.</td>
<td>Use the various resources—including videos, articles, and books Craig has written—to inspire students with the knowledge that passion and determination can truly change the world.</td>
<td>WE.org/ap/craigkielburger</td>
</tr>
<tr>
<td><strong>Ally Del Monte’s Story</strong>&lt;br&gt;Every year, 3.2 million kids are bullied. Sixteen year-old Ally Del Monte was one of them, but she decided to fight back by motivating others to be proud, be strong, and, most of all, be brave.</td>
<td>Use Ally’s story—both a video and an article—to inspire students and spark a conversation. Ally talks about bullying and its terrifying impact, but she also talks about overcoming the bullying and leading by example.</td>
<td>WE.org/ap/allydelmonte</td>
</tr>
<tr>
<td><strong>Razia Hutchins and Maurice Young’s Story</strong>&lt;br&gt;The I Am For Peace movement started as a neighborhood march against violence in the south side of Chicago. Now an annual event, it has gone global, thanks to champion youth Razia Hutchins and her partner in peace, Maurice Young.</td>
<td>Use Razia and Maurice’s story—both a video and an article—to inspire students about how a passion-driven initiative can make a life-altering impact—on those who lead the initiative as well as those who will be inspired to join.</td>
<td>WE.org/ap/raziaandmaurice</td>
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Part 4: Report & celebrate

The Report and Celebrate section is divided into three parts:

- Connect Learning
- Celebrate
- Complete Final Summary and Reflection

WE Service Framework
Overview for Part 4: Report and Celebrate

Students will compile and showcase their work. They will then celebrate their accomplishments and look ahead at ways to continue to sustain their actions. Encourage students to retain all of their AP with WE Service work.

Key Takeaways

- Devoting time to serving the greater community can positively affect the individual and the community.
- Service learning enables students to make local and global connections to AP® course content.

This Section Contains:

- Templates that all students should complete to help them successfully meet the recognition criteria.
- Tables containing optional activities that you may choose to use with your class to deepen student understanding of particular elements of Report and Celebrate.
Connect Learning

Activity: Understanding the Purpose of Showcasing Work

Discuss the following:

1. Why is it important to put together evidence of your service project?
2. What is the value of showcasing your work?
3. What are the different ways in which portfolios can be presented? Are some ways more effective than others? How and why?
4. How can a portfolio be used to educate, inform, and guide other students in creating their portfolios?
Activity: Collect Artifacts

To showcase their work, instruct students to consider including elements they would find interesting and helpful to have if they were just beginning their action. What would they include to help students who are only beginning their action planning?

Putting together a Portfolio of Artifacts

A portfolio is a collection of work, material and achievements that you believe best explain and represent your AP® with WE Service work. It can take one or more forms:

- An online presentation through Prezi or PowerPoint
- A blog or a website, or any other online tool that you may choose
- Video presentation
- Physical portfolio displayed on a presentation board, in a binder or scrapbook, etc.
Celebrate

Optional

Amazing actions, incredible impacts, and outstanding student leadership deserve to be celebrated. It is important to honor the work students have done and recognize the impact they have had on their communities, the nation, and the world. As a class (or perhaps a school, if other AP® with WE Service courses exist in the school), organize a celebration that fits the actions that the students have taken. A few celebration ideas include:

- WE Day
- A school-wide assembly
- A project fair for the whole school to visit
- An outdoor cinema-style documentary screening
- Poster exhibition
- School newsletter, newspaper, or special-edition magazine

Do not forget to share and celebrate over social media:

- Post on facebook.com/WEmovement
- Tweet @WEmovement, #WEday, #APWEserve

Teacher Tip:

Students have seen what they can accomplish as small groups, so put together all of their numbers so they can see the change they affected as a whole group.

Resources on Celebrating...

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<tr>
<td>... At WE Day</td>
<td>WE Day is a powerful, life-changing event that combines the energy of a live concert with the inspiration of extraordinary stories of leadership and change. Visit the WE Day website to find an event in your city or nearby, and apply for tickets.</td>
<td>WE.org/weday</td>
</tr>
<tr>
<td>... At a School-Wide Assembly</td>
<td>School assemblies are a popular way to showcase and celebrate collective achievements. Use the sample road map in this tip sheet to organize a memorable school assembly.</td>
<td>WE.org/ap/reportandcelebrate</td>
</tr>
<tr>
<td>... Through Social Media</td>
<td>Social media is a great way to celebrate all of the amazing work your class is doing. Join the conversation online and create fun, engaging content to share your big ideas.</td>
<td>WE.org/ap/reportandcelebrate</td>
</tr>
<tr>
<td>... Through a Project Fair</td>
<td>A project fair allows for intimate and meaningful interaction between teams and the rest of the student body, allowing other students to explore and understand the different service actions at their own pace. This tip sheet will provide thoughts and ideas on organizing a project fair.</td>
<td>WE.org/ap/reportandcelebrate</td>
</tr>
<tr>
<td>... With a Documentary Screening</td>
<td>Why not make a final documentary of the different action projects and hold a school-wide screening? This tip sheet will help you get started.</td>
<td>WE.org/ap/reportandcelebrate</td>
</tr>
<tr>
<td>... With a Poster Exhibition</td>
<td>Posters can convey a lot of information and emotion through art and concise copy. It is a great team exercise as part of their portfolios and a terrific way to share and celebrate their successes within the school and even the community.</td>
<td>WE.org/ap/reportandcelebrate</td>
</tr>
<tr>
<td>... With a Special Publication</td>
<td>Put together a class publication that shares the highlights, learning, and successes of the teams through individual and/or team articles, photo essays, and editorials. This tip sheet will get you started.</td>
<td>WE.org/ap/reportandcelebrate</td>
</tr>
</tbody>
</table>
Celebrate with WE Day

Imagine a stadium-sized celebration of thousands of students who share a passion for making the world a better place. Imagine a global roster of speakers and performers including Nobel Prize-winner Malala Yousafzai, Martin Luther King III, Demi Lovato, and Selena Gomez. Imagine an event where young service leaders are the VIPs! That’s WE Day.

WE Day Connect

WE Day Connect is an interactive, online event, hosted by WE Day talent, for students and educators across North America. In this 90-minute program, students celebrate selfless acts of volunteerism and learn how their peers are working to make a difference in their local and global communities. During our first WE Day Connect event, 30,000 people tuned in, making this our largest youth attendance for a WE Day to date! Learn more at WE.org/wedayconnect.

WE Day Special

We’ve teamed up with some amazing partners to bring the power of WE to you—wherever you live. The WE Day broadcast will bring families together for an evening of inspiration and empowerment through incredible speeches and performances by people who are making a difference in their communities. Watch the WE Day special online at WE.org/broadcast.

WE DayX

Bring the power of WE Day to your school. Kick off your year of action or celebrate the end of one with your own WE Day-style assembly, and unite your school for a better world. With WE DayX, any group can host their own event in the true spirit of celebrating and inspiring local change-makers. Learn more at WE.org/wedayx.

WE Day Webcast

Can’t make it to WE Day? Watch the live webcasts of each WE Day event online at WE.org/watchweday. For a list of event days, check out WE.org/we-day-events.

Earn Your Way

You can’t buy a ticket to WE Day. As an AP® with WE Service class, you earn your way there through your service-projects and are invited to the WE Day closest to you! Visit WE.org/weday to learn more.
Celebrate with Social Media

Social media is a great tool to show all the amazing work your students are doing!

Join the online conversation and create fun, engaging content to share your big ideas. Whether you will be running your group’s accounts or teaching your students how to run social media in a fun, safe, responsible, and effective way, these tips will provide creative ways to amplify your projects in the digital space!

**Getting connected.**
This is the best place to get started. Make it a team effort and tell your school that you’ll be posting all about the amazing work they’ll be doing. Grow your network by adding group members and students on all of your social media accounts. Stay digitally active and keep up the conversation online! Engage with posts using likes and motivate each other with comments.

**Take great photos.**
Eye-catching visuals are an absolute necessity when it comes to social media! Bright backgrounds, daylight, and big smiles are the best combination for an awesome picture. Mix it up by changing up settings. (One photo can be in a classroom; another can be outside!) This will add variety to your feed and make it much more interesting.

**Share in a timely fashion.**
Want to know a fact about social media? It only thrives if people see it. Post at times that will guarantee views. Sharing during lunch break and right after school will ensure your content gets the most visibility.

**Updates!**
Does your latest project include a goal you’re trying to reach? Keep your school updated on how close you are! Provide updates as soon as you get them, to keep your students and teachers in the know. That post might be the extra push you need to achieve your goal.

**Use hashtags.**
Craving inspiration to spice up your campaign? See what others are doing by looking up the hashtag.

**Gifs!**
Take your feed to the next level with these short animations. Download a GIF maker from your preferred app store and fuse your photos together to liven up your newsfeed.

**Tag—you’re it!**
Here’s a fun way to get your school involved: play a game of digital tag. Once you’ve posted, have students tag five friends and challenge those friends to tag and share with five others. You’d be surprised how fast word gets around! (PS: This works even better if you all use the same hashtags in your captions.)

**Create a challenge on the WE Day app!**
Amplify your latest project with a challenge on the WE Day app! Not only will your friends be psyched to take it, it’ll also be available for all app users so they can contribute to your project! Make it quick and related to your project, and amplify it further by sharing it on your social channels!

**Share with us.**
We love seeing how your projects are going! Tag your posts with #WEday, #WESchools and the campaign hashtag. They might just get featured!

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**WE Day app**

When you download the free WE Day app, you gain access to a whole world of doing good! Youth across North America are using the WE Day app for tips on taking action, inspirational stories for motivation, and tools for tracking their impact. The WE Day app can be downloaded on iOS and Android. If you don’t have a smartphone, you can use the web version. To create an account, you’ll just need an email, or you can sign in using Facebook or Twitter. To learn more, go to [WE.org/wedayapp](http://WE.org/wedayapp).
Complete Final Summary and Reflection

Activity: Complete Final Executive Summary

Once students have completed their action, submitted their evidence, and celebrated their work, students may complete an executive summary as a team. The executive summaries offer a snapshot of the team’s outcomes based on:

- Summary of the team’s work and individual contributions
- Analysis and highlights of evidence collected
- Explanation of the project impact and its significance within a larger context
- Summary of what they learned about their AP® course through the service project

Activity: Reflect on the Overall Service Experience

Individually, students complete a final reflection that describes their overall service experience. Students reflect on their thoughts at the start of the project and how they feel they have grown over the course of their service work. What do they now understand about the role of service and active citizenship, especially as an application of their learning?

Record and Reflect:

Using the following questions to guide your writing, reflect on the overall action project, which will inform the development and assembly of your portfolio.

- What were your most important successes as a team, and what were the important factors that helped you accomplish those successes?
- What obstacles did your team overcome and what strategies were important in navigating those challenges?
- What was your favorite moment in carrying out your action?
- What are you most proud of?
- If you could go back to the start, what advice would you give yourself or your team? Is there anything you would do differently?
- How is your community/the nation/the world a better place because of your action?
- How have you developed as a global citizen in taking action? What plans do you have to continue your work as a change-maker?
Completed the Module? Register to Become a WE School!

Congratulations on implementing and completing your service projects. Did you know that if students at your school complete at least one local and one global action, your school is eligible to become a WE School? Spread pride throughout your school and unlock unique opportunities by starting a WE Schools group! Check out WE.org and look for the WE Schools application.
Local and Global Issues Bibliography


Making Every Drop Count. High-Level Panel on Water. sustainabledevelopment.un.org/content/documents/17825HLPW_Outcome.pdf


Acknowledgements

AP® Chemistry Content Development
Trinna Johnson, Director, AP Curriculum and Content Development
Richard Schwenz, Professor of Chemistry, University of Northern Colorado
Kim Turnbull, AP Teacher, Mother McAuley Liberal Arts High School

Program Management and Instructional Design
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Andrea Sluchan, Associate General Counsel

The program wishes to thank the following colleagues at the College Board for their contribution:
Sidorela Sanchez, Director, AP® Program Information
Katie Short, Director, AP® Enrollment & Registration
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