# AP Computer Science Principles: AP Mentoring Year-Long Session Outline

| Session | Topics | Focus |
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| 1 | **Introductions and Goal-Setting** | • Setting individual goals and shared goals for the year<br>• AP CSP basics: Connecting content and computational thinking skills |
| 2 | **Reviewing Your Course Plan** | • Fine-tuning year-long course plans<br>• Comparing notes on language selection |
| 3 | **Algorithmic Design** | • Fresh ideas for designing lessons to build the skill of algorithmic thinking |
| 4 | **Lesson Planning: Programming** | • Adapting your programming lessons to align with students' interests |
| 5 | **Programming Assignments** | • Refocusing your programming assignments to help students grasp abstraction |
| 6 | **The Development Process** | • Refining your projects and assignments to encourage risk taking<br>• Expand your emphasis to include the creation of solutions |
| 7 | **Motivation & Engagement** | • Fighting the mid-year slump: Re-engaging students for the spring |
| 8 | **Through-Course Assessments and Analysis of Innovation** | • Master the timeline and processes for through-course assessments<br>• New ways to talk about innovation |
| 9 | **Impacts of Computing** | • Using computing innovations to practice analyzing data use and concerns<br>• Creating data visualizations to gain insights |
| 10 | **Preparing for the Exam** | • Tips and strategies to support student exam preparation |
| 11 | **Reflection and Looking Ahead** | • Reflecting on your growth throughout the year<br>• Planning for future professional development |
| 12 | **Planning for Next Year: Using Released Items and Your IPR** | • Using released exam items and your Instructional Planning Reports (IPRs) to inform instruction for next year |