

2022 AP[®] 3-D Art and Design**Sustained Investigation****Row B—Score 3****Written Evidence****Writing Prompt #1:**

Identify the question(s) or inquiry that guided your sustained investigation.

Writing Prompt #2:

Describe how your sustained investigation shows evidence of practice, experimentation, and revision guided by your question(s) or inquiry.

Student Response

My sustained investigation is based on the refraction and manipulation of light. I chose this because I enjoy experimenting with the manipulation of light forms and wanted to investigate how I could create 3D forms and alter them with light to create larger 3D spaces of shadow and light. I sketched ideas and experimented/developed ideas with various materials and sources of light to form my pieces and show my ideas and thoughts. I used different objects- wood blocks, glass, mirrors, and found objects to create my initial 3D forms and used various light sources to create the light and shadows.

In my SI I showed the manipulation of light and shadow through found objects and glass. I showed my process of development in the sketch notes in SI # (3,5,9,13) and experimental works. In SI #1 I used light projected onto blocks from different angles to show the expressions of the faces - the two figures are in an argument. In SI #3 you can see how I took the light penetrating glass to form it into the sun and used blocks to make a landscape piece. In SI #14 I used light refraction to shape the light into a specific form and show the sharpness of the light along with texture.

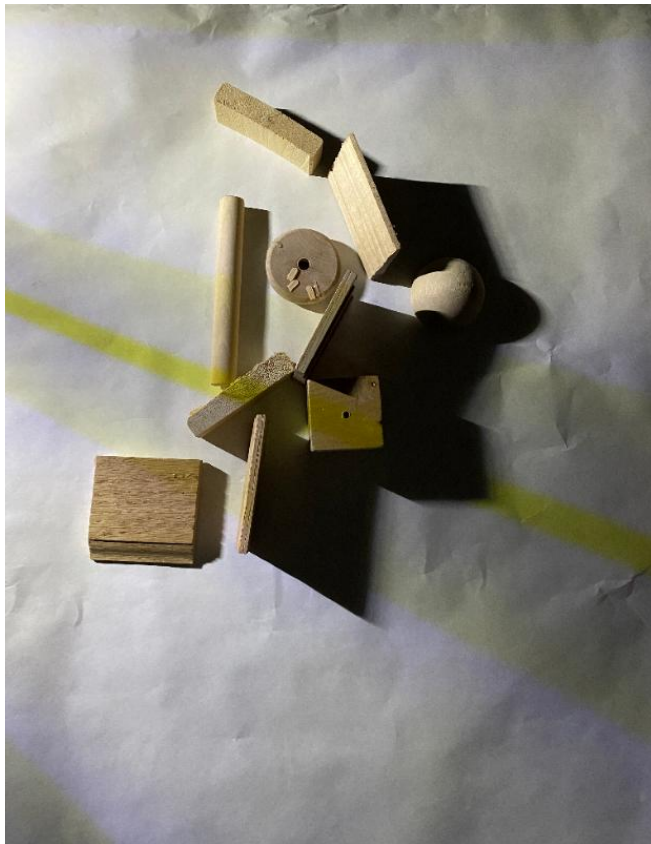


Image 1

Sustained Investigation

Height: 4 inches

Width: 10 inches

Depth: 9 inches

Material(s): wood blocks to create shadows, white paper background and can lights for light/shadow manipulation

Process(es): experimented with different shadow effects to make a face and added more blocks for more effect

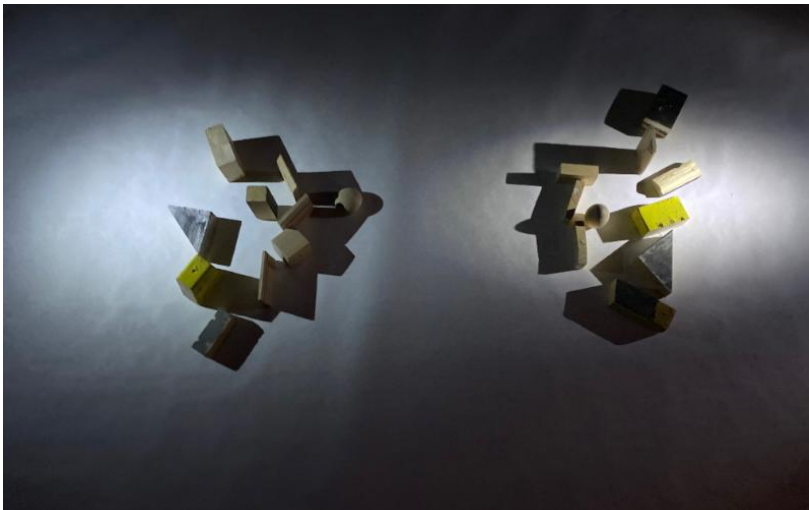


Image 2

Sustained Investigation

Height: 4 inches

Width: 12 inches

Depth: 23 inches

Material(s): blocks to create shadow, 2 lights to provide shadow effect, white paper for the backdrop

Process(es): created 2 shadow faces, and experimented with face shapes so it looks like there fighting



Image 3

Sustained Investigation

Height: na

Width: na

Depth: na

Material(s): google slides to organize thoughts and ideas

Process(es): pulled photos and evidence to talk about a sculpture



Image 4

Sustained Investigation

Height: 5 inches

Width: 8 inches

Depth: 4 inches

Material(s): wooden blocks = landscape, tinfoil and newspaper=shape, black cloth=base, glass= texture,light

Process(es): used different shapes to shape the landscape I wanted and then projected the sun with a glass

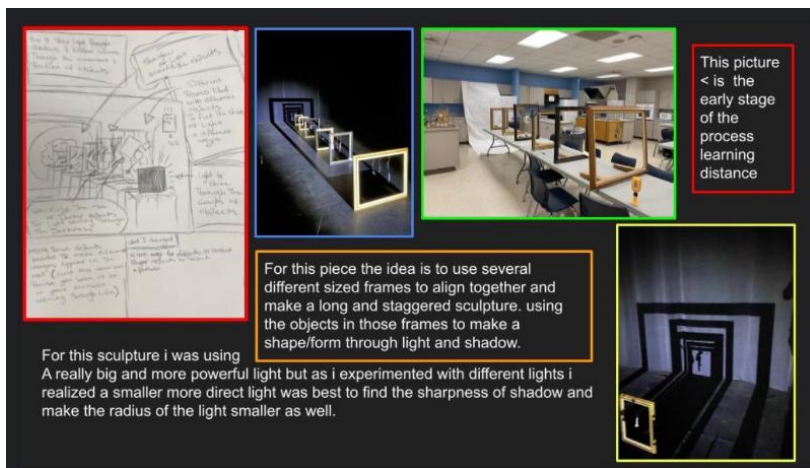


Image 5

Sustained Investigation

Height: na

Width: na

Depth: na

Material(s): google slides to organize thoughts and ideas

Process(es): i pulled photos from my piece and talked about how i made it and the idea behind it



Image 6

Sustained Investigation

Height: 13 inches

Width: 8 inches

Depth: 71 inches

Material(s): cardboard=frames, random found objects, light=shadow and white paper=backdrop

Process(es): organizing cardboard frames and organized the hanging objects to project a object or person

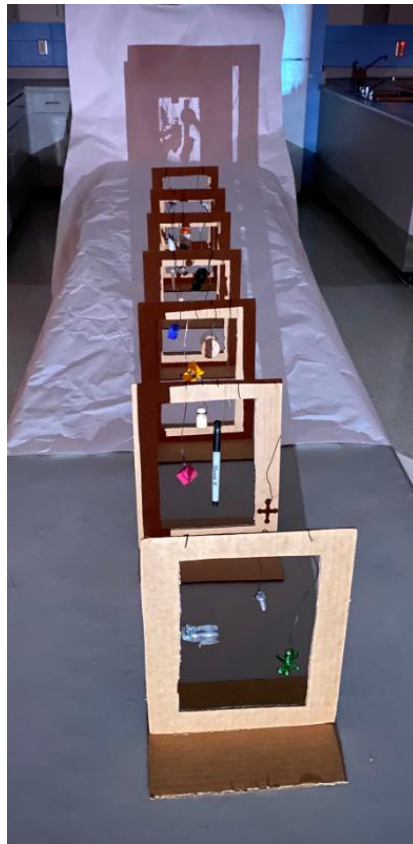


Image 7

Sustained Investigation

Height: 13 inches

Width: 8 inches

Depth: 71 inches

Material(s): cardboard=frames, white paper=backdrop, found objects, and a flashlight = shadows

Process(es): this an experimental piece for si 8 seeing overall how it would preform and what I could change

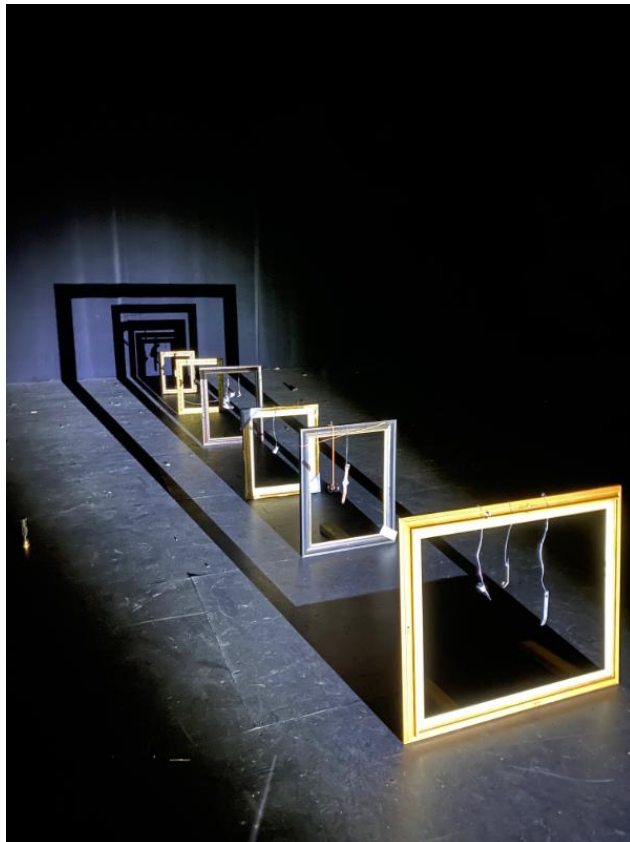


Image 8

Sustained Investigation

Height: 34 inches

Width: 23 inches

Depth: 239 inches

Material(s): frames, found objects=pieces ,string, and wire=holding objects, flashlight = shadow

Process(es): hanging found objects onto frames and using them to project a figure of shadow through the frames

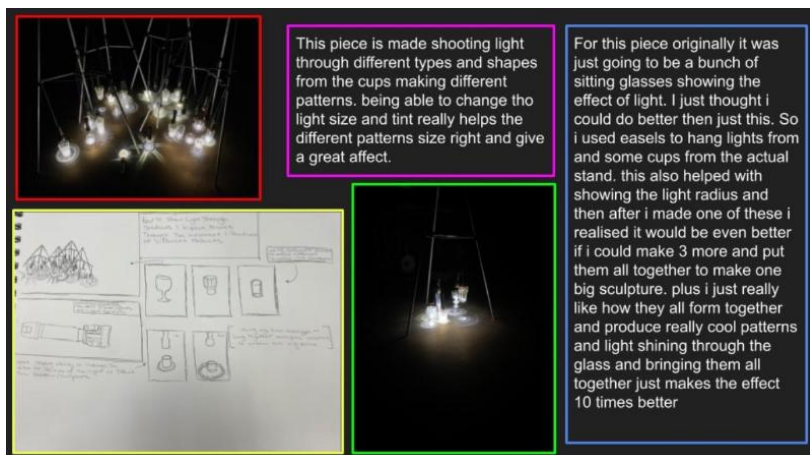


Image 9

Sustained Investigation

Height: na

Width: na

Depth: na

Material(s): google slides to organize thoughts and ideas

Process(es): pulling photos and making a page to tell you about my project



Image 10

Sustained Investigation

Height: 7 inches

Width: 3 inches

Depth: 3 inches

Material(s): glass cup=texture and adjustable light = shadow

Process(es): this was more of an experimental piece i would adjust the light size to show the projection



Image 11

Sustained Investigation

Height: 61 inches

Width: 36 inches

Depth: 36 inches

Material(s): glass= texture, adjustable light=shadow, string=holding lights, and an easel to hold everything

Process(es): I hung the lights and adjusted them to different heights for the glasses and projections



Image 12

Sustained Investigation

Height: 61 inches

Width: 58 inches

Depth: 37 inches

Material(s): glass cups=texture, adjustable lights=shadow, string=hold lights, and easels to hold everything

Process(es): i combined three more sculptures i made from SI 11 and combined them to give more of a projection

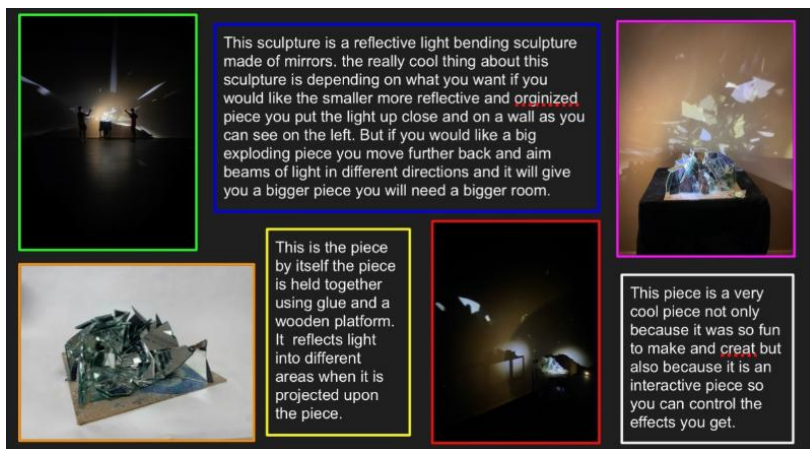


Image 13

Sustained Investigation

Height: na

Width: na

Depth: na

Material(s): google slides to organize thoughts and ideas

Process(es): i pulled different progress photos from my piece to better explain it



Image 14

Sustained Investigation

Height: 8 inches

Width: 13 inches

Depth: 13 inches

Material(s): mirror=reflection, Hot glue=hold everything together, wooden platform=base,and light=shadow

Process(es): Experimented w/reflected light, glued mirror pieces, shined light on mirrors for reflections



Image 15

Sustained Investigation

Height: 61 inches

Width: 273 inches

Depth: 167 inches

Material(s): mirror piece, light cups piece, and landscape piece= culminating light refractions and shadows

Process(es): for my final piece I chose three of my pieces and put them into a big room for a refraction room

Sustained Investigation: Analytic Scoring Rubric and Score Rationale

Row B–Score 3

Analytic Scoring Rubric Row B: Practice, Experimentation, and Revision		
Writing Prompt 2: <i>Describe how your sustained investigation shows evidence of practice, experimentation, and revision guided by your question(s) or inquiry.</i>		
1	2	3
Visual evidence of practice, experimentation, OR revision; however, visual evidence does not relate to a sustained investigation.	Visual evidence of practice, experimentation, OR revision relates to the sustained investigation. AND Written evidence relates to the visual evidence of practice, experimentation, OR revision.	Visual evidence of practice, experimentation, AND revision demonstrates development of the sustained investigation. AND Written evidence describes how the sustained investigation shows evidence of practice, experimentation, OR revision.

Score Rationale

This sustained investigation provides clear visual evidence of practice, experimentation, and revision in pursuit of “3D spaces of shadow and light.” The portfolio develops from straightforward applications of shadow into a visual spectacle of light refraction. From the first image to the last, a sincere investment in practice, experimentation, and revision leads to profound applications of light and shadow.

Image 1 presents a collection of wood blocks that create a silhouette of a face in shadow. Practice with the material of light refines the rudimentary application of shadow, and experiments lead to discoveries of new techniques in images 4 and 6. By varying the frame's proportions, the revised experiment from image 7 to image 8 creates a hierarchy leading towards the shadow's culmination. Notably, the shadows that previously overlapped in image 7 create a more engaging figure-ground relationship in image 8.

The experiment provides another moment of revision with crystal tableware in image 4, which leads to the development of image 12. The carefully honed effect of light refracting through the transparent crystal glass creates a complex glowing installation in images 10–12. Finally, image 15 transforms an architectural space through a culminating exhibition of three prior artworks.

The written evidence describes the process of experimentation and revision through preparatory sketches, testing different effects, and making improvements. For example, the student artist describes different experiments with light, such as “I sketched ideas and experimented with various sources of light” and “you can see how I took the light penetrating glass to form it into the sun.”

The process text for image 7 thoughtfully describes, “this is an experimental piece for SI 8, seeing overall how it would perform and what I could change.” Additionally, the writing refers to the “process of development in the sketch notes,” which further describes practice, experimentation, and revision.

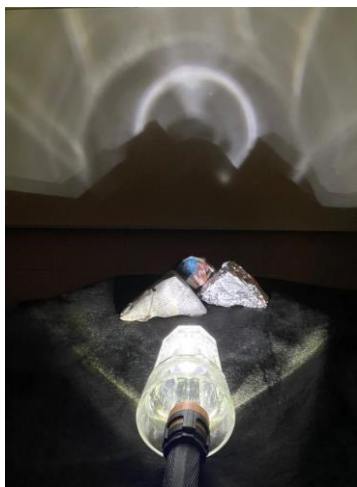


Image 4



Image 12

Sustained Investigation Score: Row A: Score 2/3 • **Row B: Score 3** • Row C: Score 2/3 • Row D: Score 2/3