

**2022 AP<sup>®</sup> 3-D Art and Design****Sustained Investigation****Row A—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 intrigue of architecture and physical structural systems, the skeletal frame underneath the finished exteriors, were my intended focus. The designing of spatial relationships, the transition between the spaces, and the effect of lighting within the spaces were all integral aspects of each analysis. I vacillated between realistic and conceptual works so as to balance and expand my understanding on both a pragmatic and theoretical level.

Exploration began with a platform framing model of an original design that integrated an enclosed porch extended from an interior room(1). Simulated lighting conditions at various times of day were captured within the interior spaces(2-3). Inspired by Moshe Safdie's Habitat 67, I developed framed volumes that were organized/reorganized into repetitive sculptural compositions(4-5) that resulted in a complex arrangement of stacked spaces(6-7). Further conceptual sketches/studies followed(8-10) leading to a cliff house and residential structure intended to coexist in a natural environment(11-15).



## Image 1

Sustained Investigation

**Height:** 25 inches

**Width:** 22 inches

**Depth:** 7 inches

**Material(s):** Balsa Wood.

**Process(es):** Using 1/4 scale and industry standard framing measurements, a platform framing model was designed.



## Image 2

Sustained Investigation

**Height:** N/A

**Width:** N/A

**Depth:** N/A

**Material(s):** Balsa Wood.

**Process(es):** Investigation of how different lighting has an impact on shadows and spatial relationships.



### Image 3

Sustained Investigation

**Height:** N/A

**Width:** N/A

**Depth:** N/A

**Material(s):** Balsa Wood.

**Process(es):** An in-depth investigation into how framing details are an art and impact residential design.



### Image 4

Sustained Investigation

**Height:** 7 inches

**Width:** 7.5 inches

**Depth:** 3.5 inches

**Material(s):** Balsa Wood.

**Process(es):** Multiple open volumes exploring spatial relationships, lighting, expansion, and transparency.



## Image 5

Sustained Investigation

**Height:** 12 inches

**Width:** 5 inches

**Depth:** 7 inches

**Material(s):** Balsa Wood.

**Process(es):** An investigation of rectilinear framed volumes and shadow combinations for architectural structure.



## Image 6

Sustained Investigation

**Height:** 20 inches

**Width:** 10 inches

**Depth:** 5 inches

**Material(s):** Balsa Wood.

**Process(es):** Study of framed volumes stacked, rotated and shifted to create a Habitat 67 inspired complex.





## Image 7

Sustained Investigation

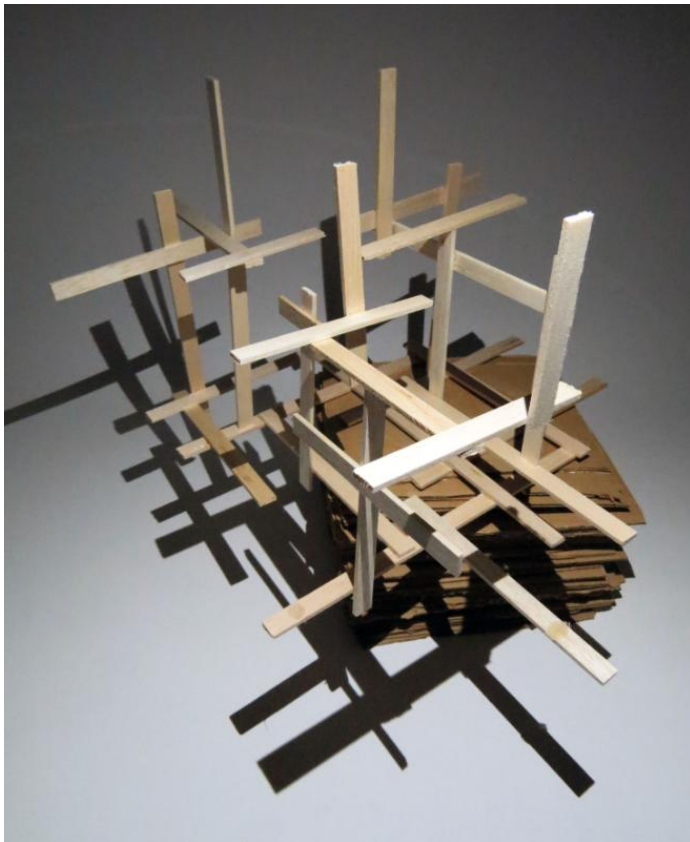
**Height:** N/A

**Width:** N/A

**Depth:** N/A

**Material(s):** Balsa Wood.

**Process(es):** Detail of juxtaposition of stacked implied volumes and their structural integrity of the whole.



## Image 8

Sustained Investigation

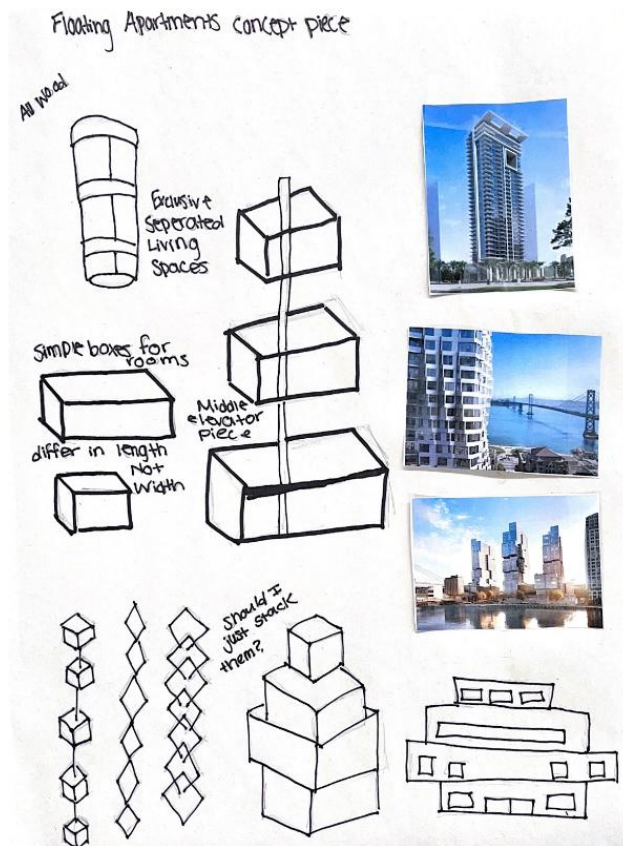
**Height:** 24 inches

**Width:** 12 inches

**Depth:** 13 inches

**Material(s):** Balsa Wood and Corrugated Cardboard.

**Process(es):** Linear grid-based datum investigation of implied volumes in relationship to site-specific land mass



## Image 9

Sustained Investigation

**Height:** 11 inches

**Width:** 8.5 inches

**Depth:** N/A

**Material(s):** Paper and Marker

**Process(es):** Brainstorming the final product of a concept piece by sketching ideas and finding references.



## Image 10

Sustained Investigation

**Height:** 19 inches

**Width:** 5 inches

**Depth:** 6 inches

**Material(s):** Balsa Wood and Foam Board.

**Process(es):** Using repetition and differentiation of sizing to create a concept model for apartment sections.



## Image 11

Sustained Investigation

**Height:** 23 inches

**Width:** 14 inches

**Depth:** 7 inches

**Material(s):** Cardboard, Balsa Wood, and Foam Board.

**Process(es):** The exploration of a cliff house design with vertical emphasis suspended, anchored into the bedrock



## Image 12

Sustained Investigation

**Height:** 23 inches

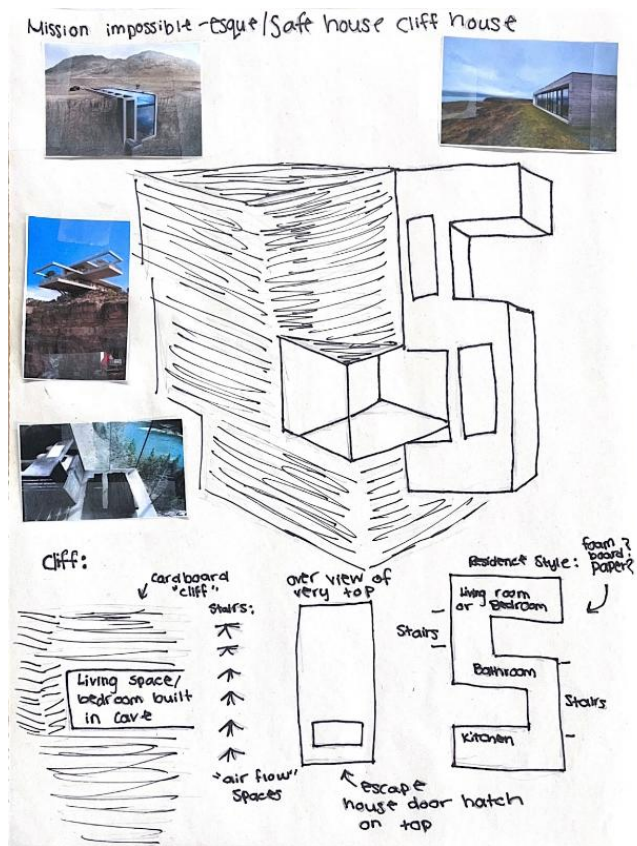
**Width:** 14 inches

**Depth:** 7 inches

**Material(s):** Cardboard, Balsa Wood, and Foam Board.

**Process(es):** Details of vertical circulation mimicking cliff strata and ground level building approach.





## Image 13

Sustained Investigation

Height: 11 inches

Width: 8.5 inches

Depth: N/A

Material(s): Paper and Marker

Process(es): Sketching possible processes for creating a house. Planning out the interior and finding photos.



## Image 14

Sustained Investigation

Height: 9 inches

Width: 6 inches

Depth: 15 inches

Material(s): Balsa Wood.

Process(es): Adjacent rectilinear volumes created to house specific functions and blend in a natural landscape.





## Image 15

Sustained Investigation

**Height:** N/A

**Width:** N/A

**Depth:** N/A

**Material(s):** Balsa Wood.

**Process(es):** Study of lighting conditions and their effects seen from both exterior and interior views.

# Sustained Investigation: Analytic Scoring Rubric and Score Rationale

## Row A–Score 3

Analytic Scoring Rubric Row A: Inquiry		
Writing Prompt 1: <i>Identify the question(s) or inquiry that guided your sustained investigation.</i>		
1	2	3
Written evidence <b>identifies</b> an inquiry, but visual evidence <b>does not relate</b> to that inquiry. <b>OR</b> Written evidence <b>does not identify</b> an inquiry.	Written evidence <b>identifies</b> an inquiry that <b>relates</b> to the sustained investigation. <b>AND</b> Visual evidence <b>demonstrates</b> the sustained investigation.	Written evidence <b>identifies</b> an inquiry that <b>guides</b> the sustained investigation. <b>AND</b> Visual evidence <b>demonstrates</b> the sustained investigation.

## Score Rationale

The written evidence identifies an inquiry that guides the sustained investigation through a meaningful presentation of visual evidence. The overarching inquiry of “structural systems” is defined through “skeletal frame” and volume-based concepts and serves to enhance the basic tenets of this sustained investigation. The written evidence suggests an inquiry that seeks discovery by “the designing of spatial relationships,” articulated in images 2, 3, and 15 by juxtaposing linear elements (vertical, diagonal, and horizontal lines) versus the shadow shapes. Attention to “the transition between the spaces” in images 9–12 features a conceptual approach to utilitarian construction concerns. Images 5, 7, and 8 reveal further sustained investigation development by introducing issues about “the effect of lighting within the spaces.” The combination of all these components works as a seamless transition throughout the investigation, particularly when considering the aesthetic conversation between realistic and conceptual approaches—although evidence of the skeletal framework is in the entire body of work. The written evidence identifies an inquiry that guides and the visual evidence demonstrates a strong sustained investigation.



Image 2



Image 11

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