

Project 1
Imaginary Devices
7th grade
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Project description

This project is an opportunity for students to observe objects and look carefully at how value (light and dark) is used to convey three-dimensional form. They will use their imaginations to invent and synthesize. Students will draw tools, toys, and objects accurately. After several distinct objects are drawn, students will cut up the original drawings and experiment with various combinations to create a new object or machine-like device. Each student will draw a combination of objects to create an imaginary device with an invented purpose and function. Students will write a paragraph describing their device and its use.

Scale/proportion & Form/ value

- Students will draw selected objects.
- Emphasis will be on proportion and scale.
- Students will observe light and dark to convey three-dimensional form.

Synthesis/invention

- Students will cut up original drawings and experiment with new combinations.
- Emphasis will be on experimentation and multiple combinations.
- Students will tape together a new machine-like device.
- Students will use tracing paper to assist in documenting combinations.

Drawing/ imaginary device

- Students begin drawing an imaginary device derived from their experiments.
- Emphasis will be on making believable transitions from one object to the other.

Describe/write

- Each student will write a paragraph describing her new device and how it is used

Imaginary Devices Rubric

Points	3	5	7	10	Total
Scale/proportion Original drawings	Student rendered none of the objects in accurate scale/proportion	Student rendered some of the objects in accurate scale/proportion	Student rendered most of the objects in accurate scale/proportion	Student rendered all of the objects in accurate scale/proportion.	
Value/form Original drawings	Student used no values to convey 3-D form.	Student used some values to convey 3-D form.	Student used many values to convey 3-D form.	Student employed a broad scale of values to convey 3-D form.	
Multiple combinations and synthesis	Student experimented with only one combination of objects to invent a new device.	Student experimented with several combinations of objects to invent a new device.	Student experimented with many combinations and used tracing paper to assist in her design process.	Student experimented with many combinations, used tracing paper to assist her in her design, and documented her new design successfully.	
Creativity/ Believable new device	Student was unable to create a believable new device.	Student created a somewhat believable device but transitions were awkward.	Student made a believable device but had some difficulty with form, value or transitions.	Student made a believable device using form, value and smooth transitions from object to object.	
Written description	Student wrote a brief description without inventing a new purpose.	Student wrote a brief description and invented a new purpose for her device.	Student wrote a full description and invented a purpose for her device.	Student wrote a full description and invented a highly creative purpose for her device.	
Time/effort	Student did not use class time wisely.	Student used some class time wisely.	Student used all class time wisely.	Student used all class time wisely and put in additional work outside of class.	

41-50 points = A range

31-40 points = B range

21-30 points = C range

11-20 points = D range

5-10 points = F