

Grade 5 - Scientific Reasoning MODELS AND DESIGNS

Assessment Task A

Teacher preparation: Each student will need to have access to masking tape, 2 jumbo paper clips, 4 thumbtacks on cardboard, a regular paper clip, a penny and a string. (If you prefer not to use thumbtacks, the students may use tape to secure their pendulums to a surface instead of thumbtacks.)

The students will use the materials to construct a pendulum.

Task:

1. Design a pendulum that will swing ten times without stopping.
2. Draw a picture and describe what you did below.

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Assessment Task A

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Assessment Task B

Task:

1. Explore a box with a partner.
2. Draw and label a diagram of what you think it looks like inside the box.
3. At your own desk, describe what you did to get information about what's inside the box.
4. Describe each of the objects that you think are inside the box.

Big Ideas

- Inferring from sensory data

Essential concepts

- The students will organize data from investigations with physical objects .
- Students will use their senses to collect and interpret data.

Performance Standards addressed by this task

Science	7 a, b
Mathematics	7 b, c
Language Arts	2 c

Rubric

5 Achieved the standard with honors	made a drawing and showed and/or told what was inside. described process used to gather the information and identify the object
4 Achieved the standard	The task is complete. It may include a few minor errors.
3 Nearly achieved the standard	Partially successful. For example, the student made a drawing and showed and/or told what was inside, but no explanation of what was done to make the drawing. Or little or no explanation of the process used to gather the information was given
2 Below the standard	Little or no success. For example, no drawing or little or no explanation of what was inside. No explanation of what was done. No explanation of any process used for information.
1 Little evidence of achievement	no or inappropriate response

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Assessment Task B

Task:

1. Explore a box with a partner.
2. Draw and label a diagram of what you think it looks like inside the box.
3. At your own desk, describe what you did to get information about what's inside the box.
4. Describe each of the objects that you think are inside the box. Write your answer in paragraph form. Be sure to use a topic sentence, at least two detail sentences, and a concluding sentence. Think FIRST, THEN, NEXT, FINALLY


