

# A Model World

## Procedure

- 1. Collaborate** Working with a partner, roll modeling clay into two balls of different colors. Make one the size of a golf ball and the other the size of a baseball.
- 2. Use Models** The smaller clay ball represents Earth's outer core. The marble represents its inner core. Push the marble into the center of the smaller clay ball and reshape the clay around it. You now have a model of Earth's two-part core.
- 3. Use Models** The larger clay ball represents Earth's mantle. Using the plastic knife, cut this clay ball in half. Reshape the clay so that this ball can be wrapped around the two-part core. You now have a model of Earth's core and mantle.
- 4. Measure** Use a measuring tape to find the distance around your model at its "equator." Cut a rectangle of foil equal to that distance in length and one-third of that distance in width. Wrap the foil around the mantle and smooth it out. This thin layer of foil represents Earth's crust.

## Conclusion

Write the answers to the questions.

- 1. Infer** How would you describe the layers that make up Earth's structure?

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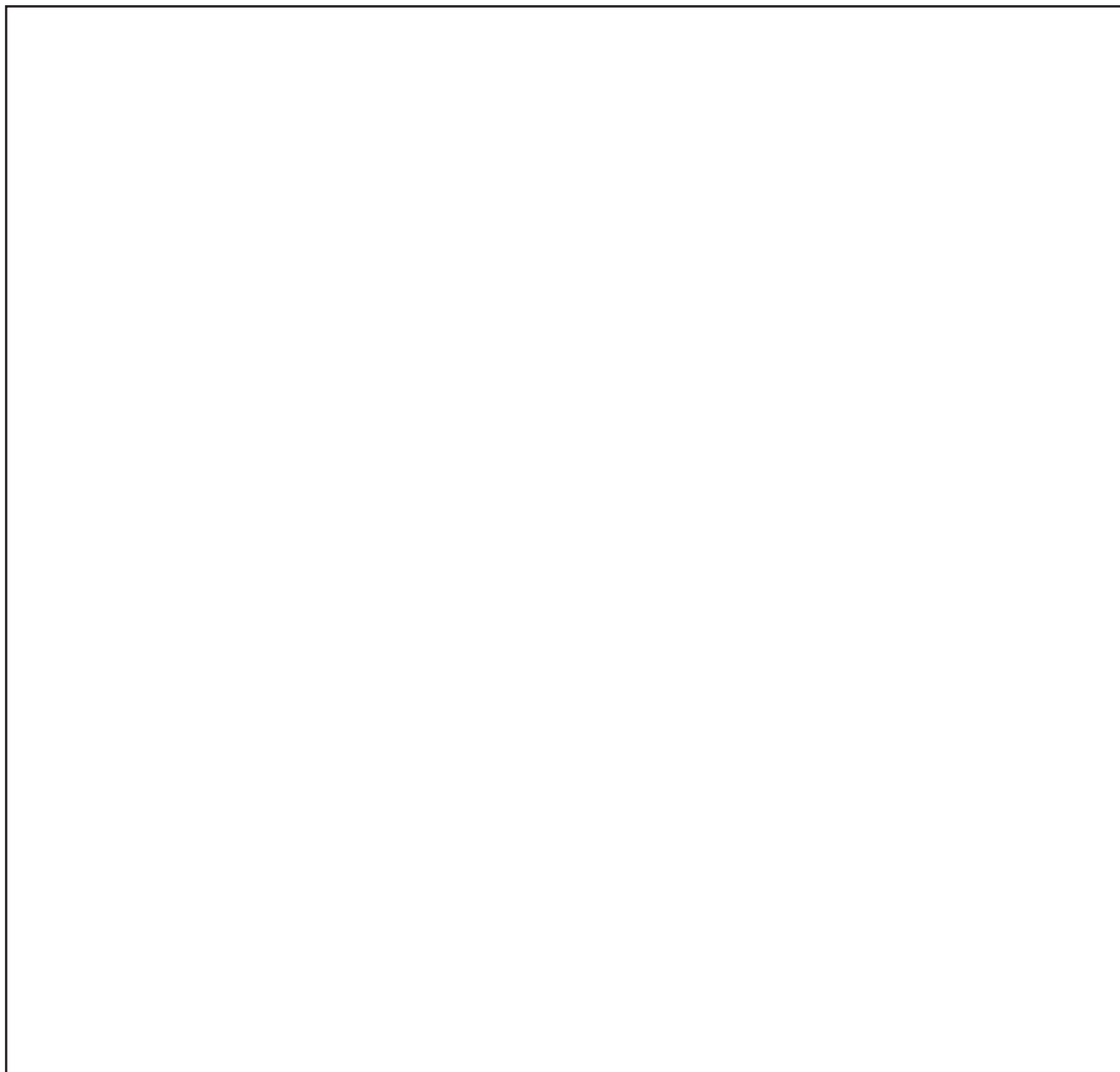
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Name \_\_\_\_\_ Date \_\_\_\_\_

**2. Use Models** Draw what your model of Earth would look like if you could slice it in half. Label the layers.



## Investigate More!

**Design an Experiment** List some materials you could use to model Earth's layered structure. Describe how you would arrange them.