

Name: () Class: Date:

INTERACTIVE Assignment: DENSITY

Question 1:

Indicate below if you expect if the following items would float or sink in water.

| Item | floats / sinks in Water |
|--------|----------------------------|
| gold | |
| lead | |
| foam | |
| ice | |
| iron | |
| wood | |
| rubber | |

Question 2:

Explore the simulation using the instructions below and complete the worksheet.

Activity 1:

- a) What happened to the red cube when you increase the mass?
(Increase the mass by moving the slider for mass to the right)

The red cube [sinks / floats].

- b) What happened to the red cube when you reduce the mass?
(Reduce the mass by moving the slider for mass to the left)

The red cube [sinks / floats].

- c) What happened to the red cube when you increase the volume?
(Increase the volume by moving the slider for volume to the right)

The red cube [sinks / floats].

- d) What happened to the red cube when you reduce the volume?
(Reduce the volume by moving the slider for volume to the left)

The red cube [sinks / floats].

Reflection:

What can you conclude from this activity?

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Activity 2: Change the fluid in the container into water.

- a) What is the density of water? g/mL.
- b) Change the object into the items stated in the table and fill in the blanks.

| Item | floats / sinks in Water | mass / g |
|--------|----------------------------|----------|
| gold | | |
| lead | | |
| foam | | |
| ice | | |
| iron | | |
| wood | | |
| rubber | | |

Reflection:

- a) By comparing to question 1, did you manage to predict all of the items correctly?

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- b) State one thing you learned from this activity.

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End of Paper