

**Forces in Fluids** ▪ 11.2 Review and Reinforce**Floating and Sinking****Understanding Main Ideas**

Answer the following questions in the spaces provided. Use the back of this sheet or a separate sheet of paper if you need more room.

1. Explain why an object underwater feels lighter than when it is in air.

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2. If an object that floats on the surface displaces  $10 \text{ cm}^3$  of water, how much does that object weigh? Explain how you know.

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Fill in the table below.

Observation of object in fluid	Density of object compared to the density of the fluid
Object sinks.	3.
Object floats on surface.	4.
Object floats at constant level.	5.

**Building Vocabulary**

Define each of the following in the spaces provided.

6. Archimedes' principle

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7. density

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8. buoyant force

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