

# Introductions

# A.S.U. Science

What is the name of one of the A.S.U. presenters?

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What does he or she do at A.S.U.?

What is his or her subject major?

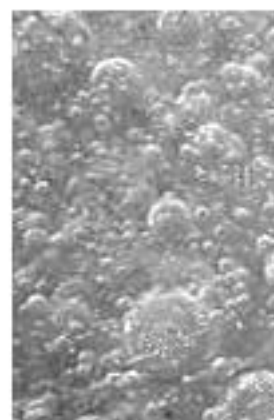
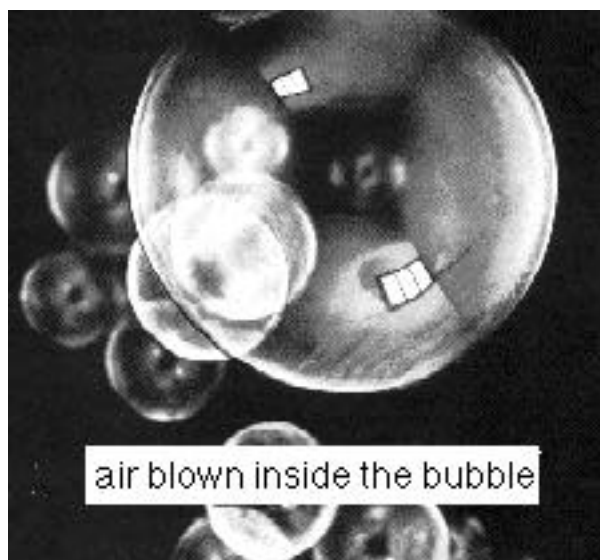
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What are his or her aspirations?

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## States of Matter

Label these pictures with the words solid, liquid, or gas.



Soap solution  
inside the container

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What gas mixture in the atmosphere is captured inside the bubbles?

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What symbols does a chemist use to write this mixture?

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# Elephant's Toothpaste

Your presenter brought two solid containers.

What geometric shape are these containers?

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What measurements are on the containers?

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1. What was the first liquid poured into the container?

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What was the quantity of the first liquid?

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2. What was the second liquid poured into the container?

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What was the volume of the second liquid?

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Was there a change in temperature?

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Was there a change in color?

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Was there a change in state of matter?

---

Was there a chemical reaction?

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**3.** What was the third liquid poured into the container?

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What was the volume of the third liquid?

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Was there a change in temperature?

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Was there a change in color?

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Was there a change in state of matter?

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Was there a chemical reaction?

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How would a chemist write this reaction?

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# Genie in the Bottle

The demonstrator will show another way to make an oxygen gas. Watch, think, and raise your hand when you recognize a chemical reaction.

Was there a change in temperature?

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Was there a change in color?

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Was there a change in state of matter?

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Was there a chemical reaction?

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How was the science of Elephant's Toothpaste and Genie in the Bottle similar? Tell at least three similarities.

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How was the science of Elephant's Toothpaste and Genie in the Bottle different?

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What does "exo" mean? \_\_\_\_\_ What does "thermic" mean?

\_\_\_\_\_ What does exothermic mean? \_\_\_\_\_

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