

Air Ideas

Name _____

Formative Assessment Probe

Period _____

Mr. Boriss sets up a demonstration for the students in his class. There are 2 balloons filled with air tacked at opposite ends of a meter stick. The meter stick is balanced on a point in the front of the room. Mr. Boriss asks his class, "What will happen if I let all the air out of one of the balloons?" Below are several student responses. Choose the student you agree with and explain why you think this will happen.

Suzie: "The end of the meter stick with the full balloon will float up because it has air in it and will be lighter than the balloon without air."

Robert: "I think the end of the meter stick with the empty balloon will sink because the balloon is denser now that it doesn't have any air in it."

Frances: "I think the end of the meter stick with the full balloon will sink because it has the mass of the balloon and the air inside."

Jason: "I think the meter stick will stay balanced because there is still just a balloon at each end."

Your choice of student: _____

Your Reasons: _____

Your Experiences: _____
