

Name: _____ Date: _____



Does air weigh anything? Use a coat hanger as a balance and attach an uninflated balloon to one end and an inflated balloon to the other. What happens? Draw a diagram to show what happens then answer the questions.

Diagram:

A large empty rectangular box with rounded corners, intended for drawing a diagram of the experiment.

Which balloon weighs more?

An empty rounded rectangular box for writing the answer to the first question.

How do you know?

An empty rounded rectangular box for writing the answer to the second question.

What does this tell you about air?

An empty rounded rectangular box for writing the answer to the third question.

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Does air weigh anything? Use a coat hanger as a balance and attach an uninflated balloon to one end and an inflated balloon to the other? What do you think will happen? Make a prediction and then draw a diagram to show what the results were then answer the questions.

What do you think will happen and why?

Draw a diagram of the results:

Which balloon was heavier?

How do you know?

Was your prediction correct?

What does this tell you about air and weight?

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Does air weigh anything? Use a balloon and digital scales to help you find out!

Weigh an uninflated balloon on the scales. How much does it weigh?

How much do you predict it will weigh once you have blown it up? Why?

Now use the scales to weigh the inflated balloon. How much does it weigh?

How accurate was your prediction?

Now blow the balloon up a bit more. How much do you think it will weigh now and why?

Now use the scales to weigh the balloon again. How much does it weigh?

How accurate was your prediction?

What does your experiment tell you about air and weight?

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Draw labelled diagrams to show how the particles of solids, liquids and gases are different.

A large, empty rectangular box with rounded corners, intended for drawing a particle diagram of a solid.

Solids

A large, empty rectangular box with rounded corners, intended for drawing a particle diagram of a liquid.

Liquids

A large, empty rectangular box with rounded corners, intended for drawing a particle diagram of a gas.

Gases