



Physical Science

STATES OF MATTER

Day 1: Introduction

Day 2: Solids

Day 3: Liquids

Day 4: Gases

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Remember



Matter is anything that takes up space.

Matter can be *classified* into 3 groups:

Solids

Liquids

Gases



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What is a **Gas**?

A **gas** expands or fills up all of a space.

Gases are usually invisible.



Gas particles spread out all around.



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anything that takes up space.

Solid

A **solid** keeps its **own shape**.



A **solid cannot** be easily **bent** or **molded** into a new shape.

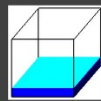


Under a microscope, a **solid's** particles are packed **tightly together**.



Liquid

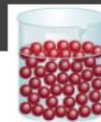
A **liquid** takes the shape of its container.



A **liquid** can be poured or spilt.



Under a microscope, a **liquid's** particles flow loosely around their container.



Gas

A **gas** expands or fills up all of a space.

Gases are usually invisible.



Gas particles spread out all around.



STATES OF MATTER

Balloons, Bottles, and Fan

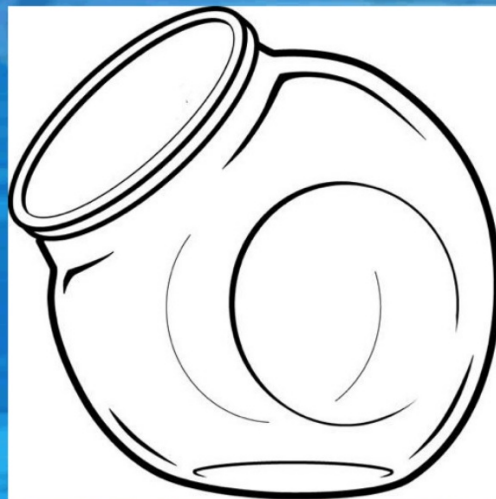
If **gases** are invisible, how do we know they're there?

What would happen if I put a **solid** in this container?

What about a **liquid**?



Or a **gas**?



rock

The background of the slide is a movie poster for Disney Pixar's 'Up'. It features the main characters, Mr. and Mrs. Farnsworth, floating in the sky with their house and a large cluster of colorful balloons. The title 'Up' is written in a large, white, stylized font in the upper right corner. The Disney Pixar logo is above the title, and the release date 'MAY 29, 2009' is below it. The text 'Balloon Challenge' is overlaid on the poster in a green font.

Balloon Challenge

Step #1: Blow up the balloon

Step #2: Blow up the balloon while it's inside the bottle.

Question #1: Why won't it blow up inside the bottle?

Question #2: How can you make it blow up inside the bottle.