

MATTER ALL AROUND

What is Matter?

Not WHAT is the matter – what IS matter?

Matter is all around you. Matter is anything that takes up space.

Mass is the amount of matter in an object. It is how much stuff an object is made of.

*Let's check what we have learned so far:
What is matter?*

Three States of Matter

Matter can



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s of matter.

Solid

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A solid takes up space.
A solid has its own shape.
A solid's shape will not change.

Liquid



A liquid also takes up space.
A liquid can change its shape.
A liquid takes the shape of whatever it is poured into...like a glass.

Gas



A gas takes up space. You can't see most gases.
A gas can change size and shape.
A gas takes up space.



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gas = water vapor

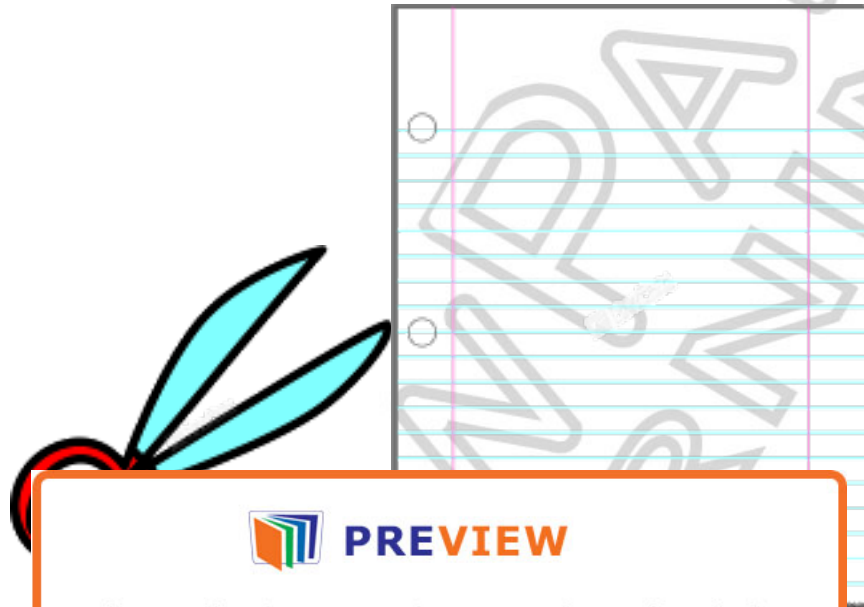


***Let's check what we have learned so far:
Describe some features of a liquid.***

Matter Can Change

Matter can be changed.

Example: When you cut paper in half using scissors.

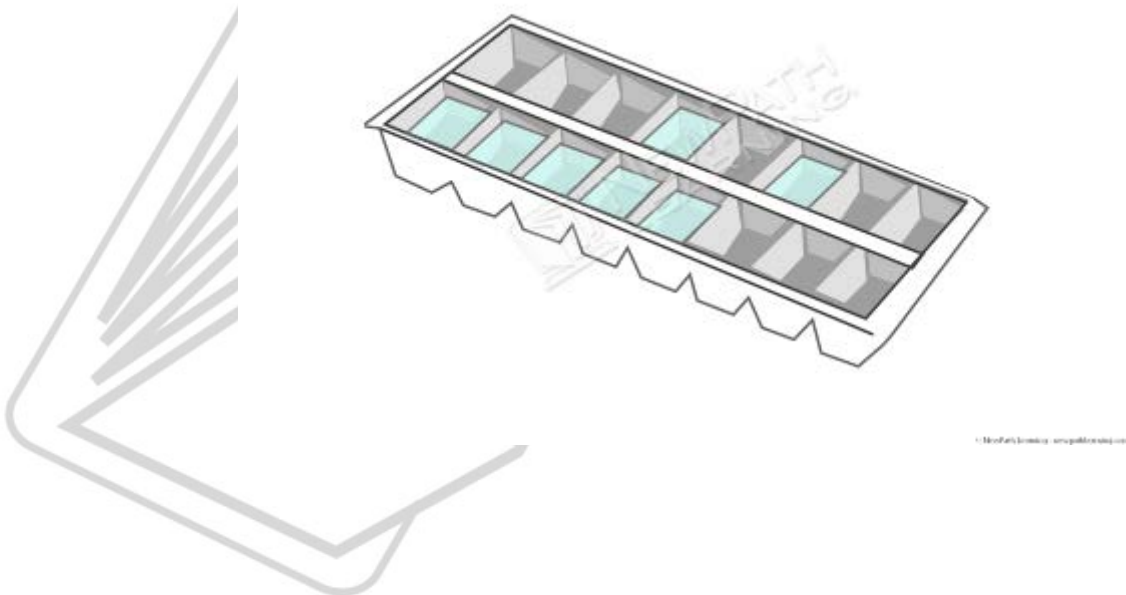


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Liquid can

Water, a liquid, which is placed in a freezer will freeze into ice, a solid.



Solids can change into a liquid:

An ice cube, a solid, can melt into a puddle of water, a liquid. Heat melts the ice causing it to change states.



A liquid can change into a gas:

Heat can c
water, whi

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water, the
s a gas.

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You can even mix solids and liquids together: water with ice cubes in it.

Dissolving

Some solids will dissolve in liquid. **Dissolve** means to break into tiny pieces so small so that the pieces can not be seen any longer.

Salt dissolves in water.

Another Kind of Change

One last example of matter changing is when wood burns it changes from wood into ashes, which is a different kind of matter than the wood.



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***Let's check what we have learned so far:
Give one example of how a solid can change into a liquid.***