

# MIDDLE PRIMARY

## Beginner Science

### E-Booklet Part 2



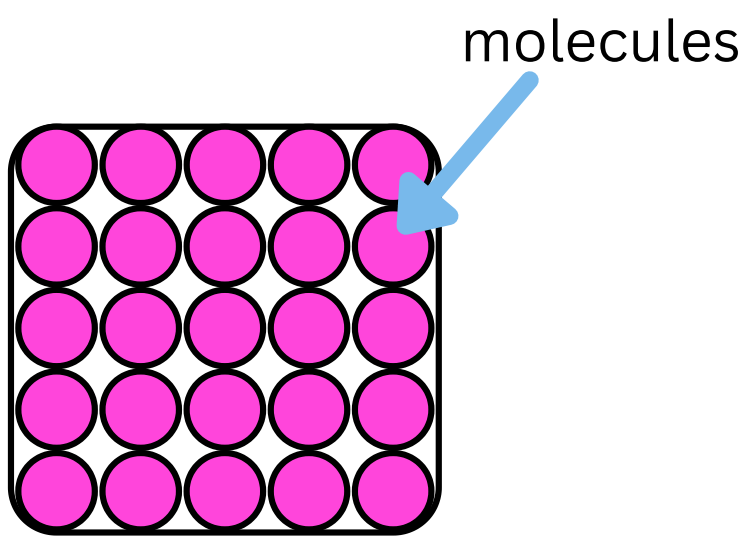
# States of Matter

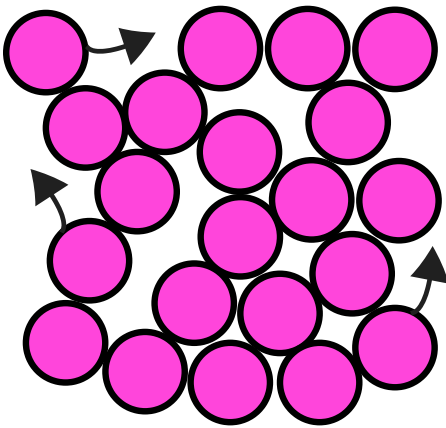
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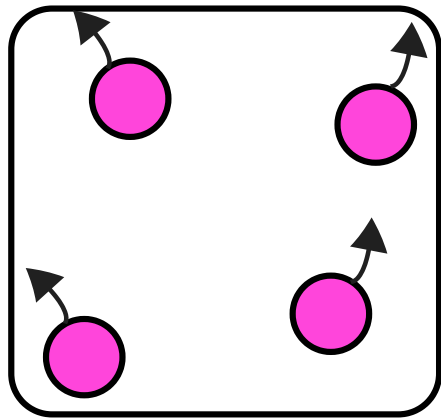
Name the three states of matter in the boxes below:

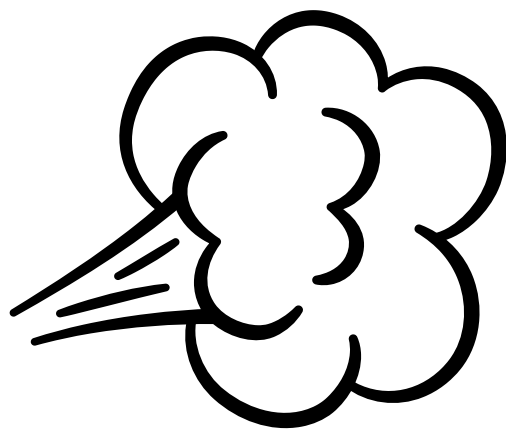


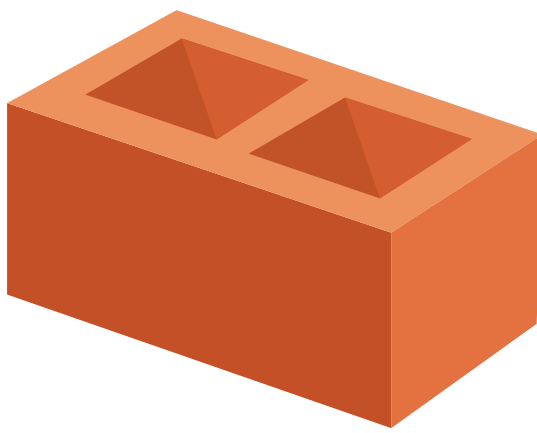

Label each pictures below as one of the three states of matter listed above:














Name a solid and describe what happens to it when heated.Explain in terms of molecules.

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## States of Matter Solutions

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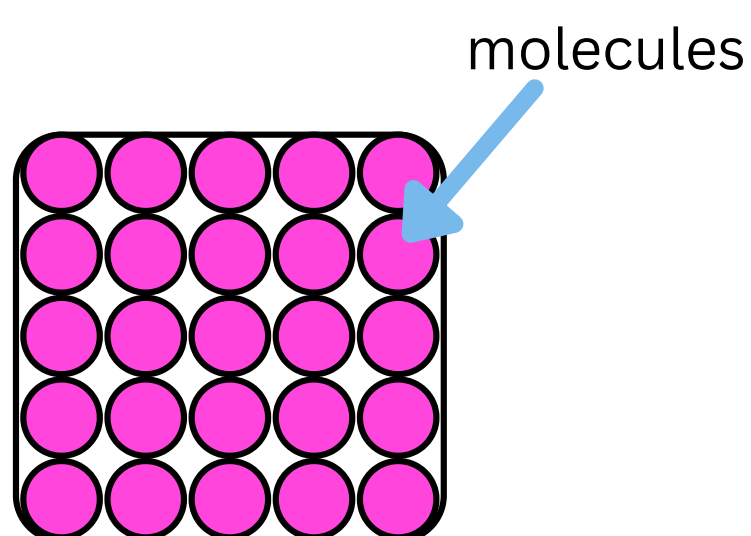
Name the three states of matter in the boxes below:

solid

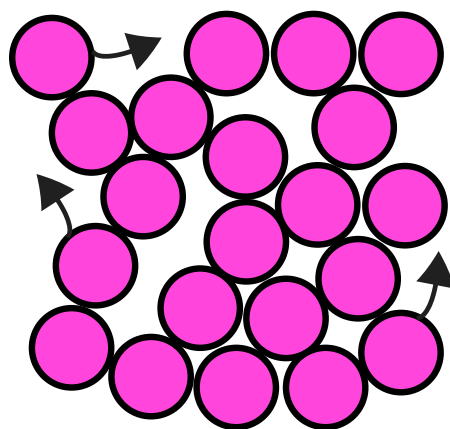
liquid

gas

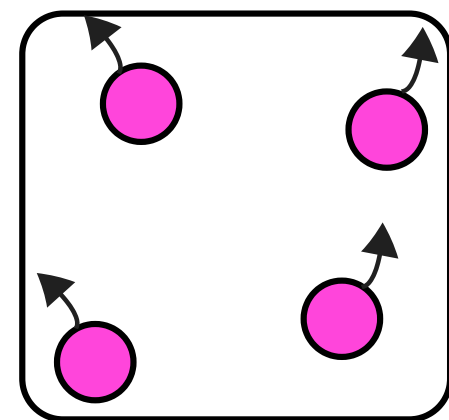
Label each pictures below as one of the three states of matter listed above:



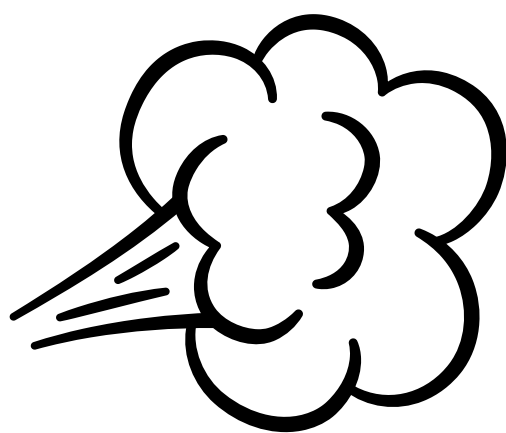
solid



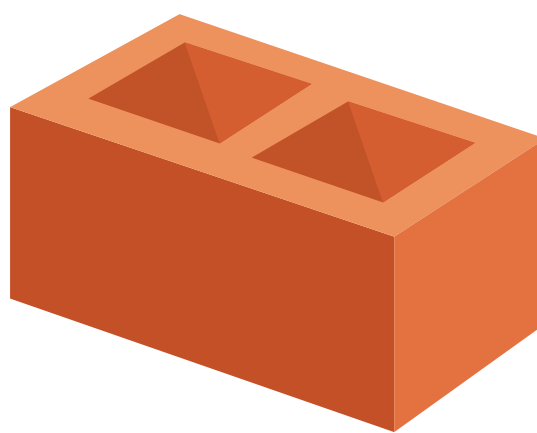
liquid



gas



gas



solid



liquid

Name a solid and describe what happens to it when heated. Explain in terms of molecules.

An example of a solid is rock. It keeps its shape as its molecules are fixed in their position.

When it is heated, the tiny molecules gain energy and vibrate in their fixed position.

The rock keeps its shape unless the heat is too much, then it melts.



# Characteristics of Living and Non-Living Things

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Read each statement. Circle True or False.

Non-Living Things can breathe.

True

False

Living Things need food for energy.

True

False

Non-Living Things consume food.

True

False

Non-Living Things have senses.

True

False

Living Things can get rid of unwanted materials.

True

False

Non-Living Things can move on its own.

True

False

Water, Air and Sunlight are Living Things.

True

False

Living Things can reproduce.

True

False





# Characteristics of Living and Non-Living Things - Solutions

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Read each statement. Circle True or False.

Non-Living Things can breathe.

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False

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Non-Living Things consume food.

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Non-Living Things can move on its own.

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False

Water, Air and Sunlight are Living Things.

True

False

Living Things can reproduce.

True

False





# Characteristics of Living Things

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Use the helping words to fill in the blanks.

<i>copies</i>	<i>waste</i>	<i>respond</i>
<i>body</i>	<i>energy</i>	<i>characteristics</i>
<i>movements</i>	<i>live</i>	<i>environment</i>

Biologists use seven \_\_\_\_\_ to decide if something is living.

**Movement**

All living things move in some way, although their \_\_\_\_\_ might not be seen

**Respiration**

All living things need \_\_\_\_\_ to survive, so they carry out respiration

**Sensitivity**

All living things \_\_\_\_\_ to survive in their \_\_\_\_\_

**Growth**

All living things grow and replace \_\_\_\_\_ parts

**Reproduction**

All living things have a way of making \_\_\_\_\_ of their own kind

**Excretion**

All living things must eliminate \_\_\_\_\_ from their bodies

**Nutrition**

All living things take in food or a source of nutrients in order to \_\_\_\_\_





# Characteristics of Living Things - Solutions

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Use the helping words to fill in the blanks.

<i>copies</i>	<i>waste</i>	<i>respond</i>
<i>body</i>	<i>energy</i>	<i>characteristics</i>
<i>movements</i>	<i>live</i>	<i>environment</i>

Biologists use seven characteristics to decide if something is living.

**Movement**

All living things move in some way, although their movements might not be seen

**Respiration**

All living things need energy to survive, so they carry out respiration

**Sensitivity**

All living things respond to survive in their environment

**Growth**

All living things grow and replace body parts

**Reproduction**

All living things have a way of making copies of their own kind

**Excretion**

All living things must eliminate waste from their bodies

**Nutrition**

All living things take in food or a source of nutrients in order to live

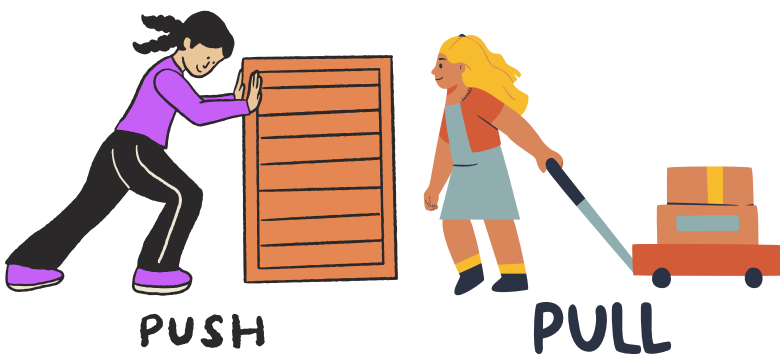
# Using Forces

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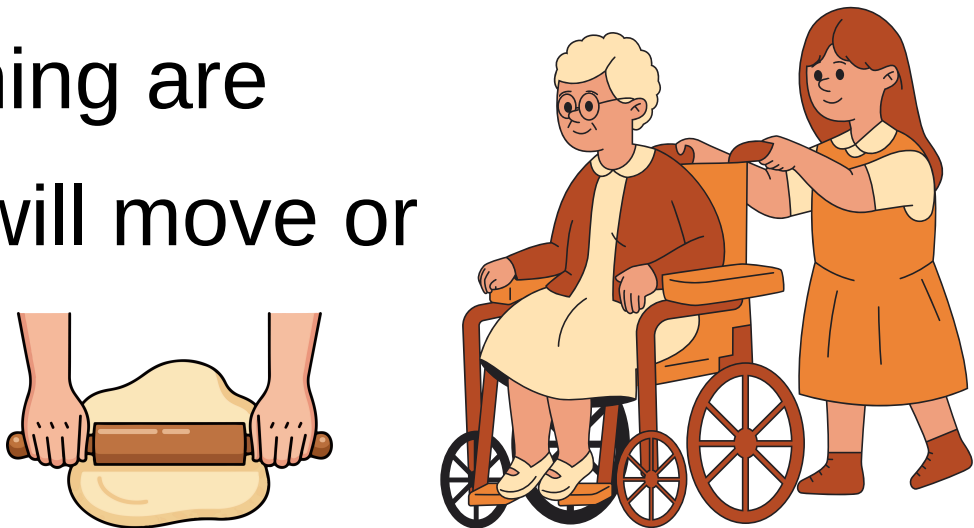
Fill in the blanks.

balanced	move	equal	force
unbalanced	opposite	change shape	

A push or a pull is a \_\_\_\_\_



When forces acting on something are \_\_\_\_\_ the object will move or \_\_\_\_\_



When forces acting on something are \_\_\_\_\_ the object will not \_\_\_\_\_



Balanced forces push on \_\_\_\_\_ sides of something with \_\_\_\_\_ strength.





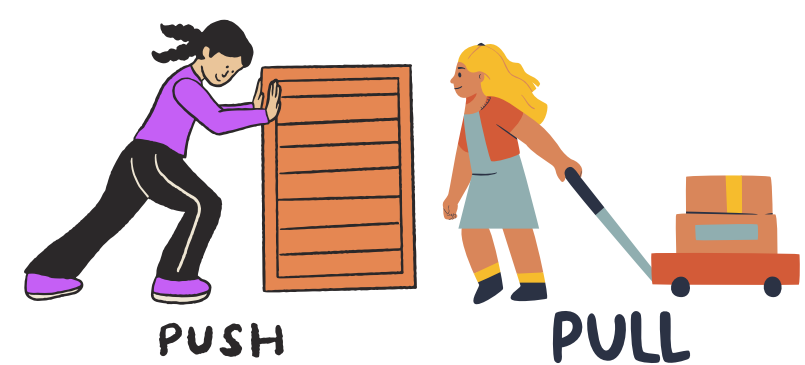
# Using Forces - Solutions

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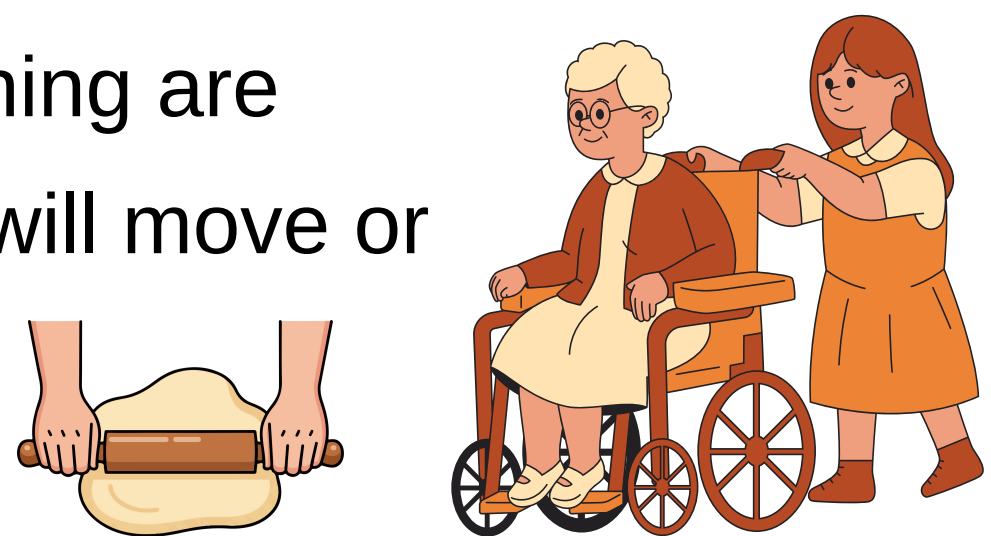
Fill in the blanks.

balanced	move	equal	force
unbalanced	opposite		

A push or a pull is a force



When forces acting on something are unbalanced the object will move or change shape



When forces acting on something are balanced the object will not move



Balanced forces push on opposite sides of something with equal strength.

