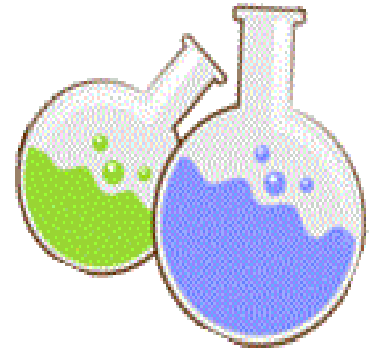
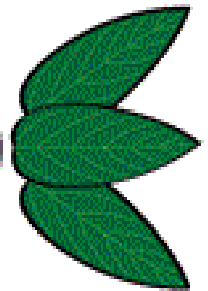
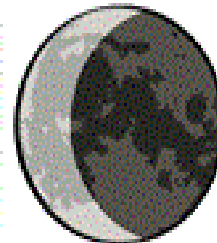
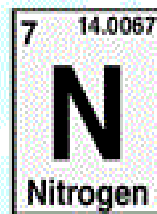
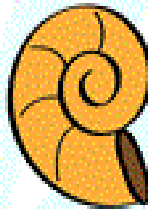
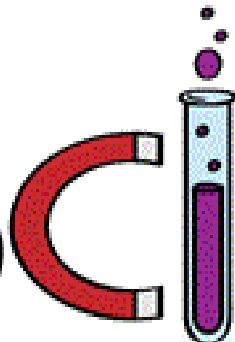
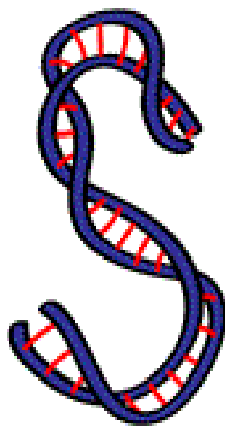


Aspire International School



**ASPIRE**  
INTERNATIONAL SCHOOL



Science Department

2023/2024

Year 2

Term 1 Revision pack

ASPIRE

INTERNATIONAL SCHOOL

Name: .....

Class: .....

# Habitats

**Choose the best answer:**

1. A habitat is the natural home of an animal or ( plant - rock)
2. Many plants need ( soil - light ) from the sun.
3. Plants need ( water - seeds) or they will dry out.
4. Plants get their nutrients and grow their roots in ( soil - sun)
5. Oceans are large areas of ( salt - fresh ) water.
6. A rain forest has very tall (trees - cacti).
7. The desert habitat is hot and ( wet - dry)
8. The desert habitat has fewer ( plants - sand)
9. There are many living things in the ( desert - forest ).
10. The forest animals have many plants to ( play - eat)
11. Very dry with little water and very few plants (desert - ocean).
12. Water lilies live in the ( fresh water - ocean ) habitat.
13. Arctic is very ( cold - warm) place.
14. Polar bears have thick ( feathers - fur).
- 15.

16. Lots of plants live by the ( desert - river) where they have a good habitat.
17. Rabbits and mice eat seeds and ( animals - plants)
18. A living thing finds what it needs in the right ( habitat - forest) .

**True or False:**

1. A place where animals and plants can find all their needs is called a habitat. ( )
2. Plants need light, water, and air to survive. ( )
3. When a plant doesn't get enough light it will be healthy. ( )
4. In the hot desert the seed will die. ( )
5. In the cold habitat the seed will grow. ( )
6. By a river the seed will be healthy. ( )
7. A frog lives near rocks to stay wet and find food. ( )
8. In a fish tank, fish use the big stones and seaweed to hide. ( )
9. A habitat is a place where animals and plants find all their needs.( )
- 10.Plants need light, water, and air to survive. ( )
11. A frog lives near rocks to stay wet and find food. ( )
12. In the cold habitat the seed will grow. ( )

1. A place where animals and plants can find all their needs is called a \_\_\_\_\_.
2. Living things need \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ to survive.
3. Palm tree can grow in desert because it doesn't need lots of \_\_\_\_\_.
4. Pine Trees are very tall to reach \_\_\_\_\_.
5. \_\_\_\_\_ cannot grow in the arctic because it is very cold.
6. Some plants live in the desert and have spiky leaves like \_\_\_\_\_.
7. Some animals store food in their bodies like the \_\_\_\_\_.
8. A habitat is the natural home of an animal or \_\_\_\_\_.
9. The desert habitat is hot and \_\_\_\_\_.
10. The forest animals have many plants to \_\_\_\_\_.

**Name the habitat:**

Rain forest                      desert                      ocean                      fresh water                      arctic

1. Very dry with little water and very few plants \_\_\_\_\_.
2. Very cold habitat, where polar bear lives and no plants can survive.  
\_\_\_\_\_
3. Large amount of water where fish and whales live \_\_\_\_\_
4. Water lilies live in the \_\_\_\_\_ habitat.
5. A habitat with lots of trees and large amount of rain. \_\_\_\_\_

**Fill in the blanks.**

Cold                      dry                      fur                      water                      warm                      hump

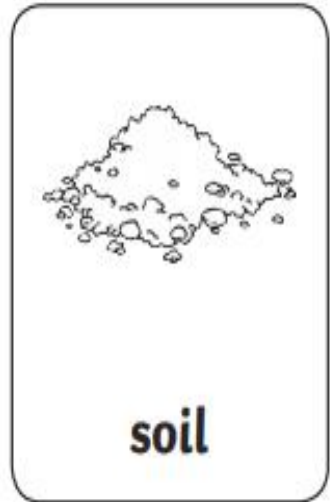
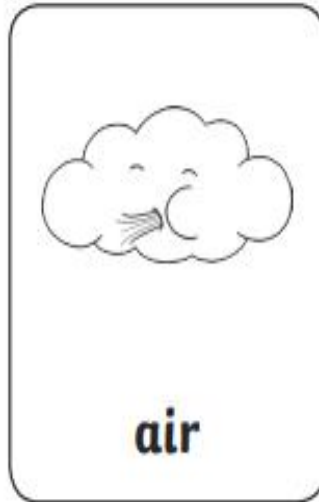
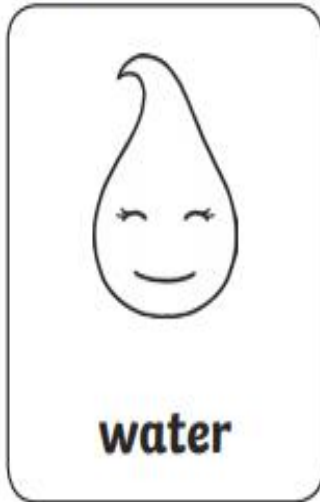
1. Arctic is very \_\_\_\_\_ place.
2. Polar bears have thick \_\_\_\_\_, it keeps them \_\_\_\_\_.
3. The desert is very \_\_\_\_\_.
4. Camels have \_\_\_\_\_, they use it to store food and \_\_\_\_\_.

plants                      habitat                      animals                      river                      grow

5. Lots of plants live by the \_\_\_\_\_. These plants have a good habitat so they can live and \_\_\_\_\_.
6. Rabbits and mice eat seeds and \_\_\_\_\_. The snake and eagle eat small \_\_\_\_\_.
7. A living thing finds what it needs in the right \_\_\_\_\_.

# Plants Need...

Use the words below to finish the sentences.



Many plants need \_\_\_\_\_ from the sun.

Many plants need \_\_\_\_\_ or they will dry out.

Many plants need \_\_\_\_\_ to grow their roots in.

They get the nutrients they need from the soil.

Plants need \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_  
which they use to make food.

# 1. Label the habitat.

Type in the name of the habitat under each picture.

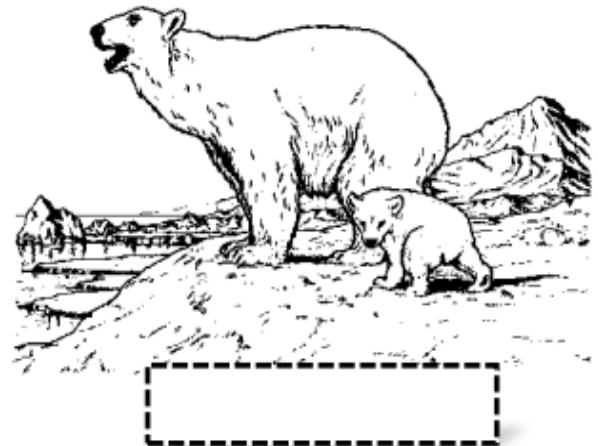
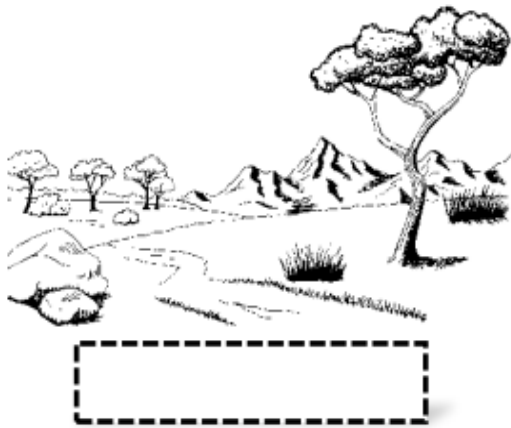
Desert

Grassland

Rainforest

Arctic

Ocean



Draw a line from the living thing to its habitat.



woodland



rainforest



desert



ocean





# Rocks

## True or False:

1. Chalk rocks are used to create heat. ( )
2. Stones are small rocks. ( )
3. Coal rocks are used to create heat. ( )
4. Impermeable rocks mean it absorb water. ( )
5. Granite can be used to make sinks. ( )
6. Quarries are caves where we can find rocks. ( )
7. Riverbeds are one source of rocks. ( )
8. Rocks are natural materials. ( )

## Choose the best answer:

1. Some rocks are used to create heat like ( slate - coal).
2. Workers use diggers and ( explosives - salt ) to dig up in quarries.
3. This stone is whit in colour ( coal - lime stone)
4. Slate is suitable for roofs because it is ( black - waterproof)
5. Permeable rocks means they are ( absorb water - waterproof)

**Fill in the blanks:**

Explosives

coal

slate

marble

1. Some rocks are used to create heat like \_\_\_\_\_.
2. Workers use diggers and \_\_\_\_\_ to dig up in quarries.
3. \_\_\_\_\_ is used to make carvings and statues.
4. These rocks are used to build roofs. \_\_\_\_\_

**Answer the following questions.**

1. Which rocks are or could be white in colour? \_\_\_\_\_
2. Which rocks are very hard? \_\_\_\_\_
3. What happens to sandstone when it is damaged? \_\_\_\_\_
4. Which types of rock have layers? \_\_\_\_\_
5. Why do you think marble is usually used for surfaces? \_\_\_\_\_

**Match the word to its meaning:**

A place where the surface rocks are removed.

Absorb

A hole dug to extract rocks and minerals.

Mine

When water soaks into the material.

Chalk

A hard material that comes from the earth.

Rock

We use it to write on blackboards.

Quarry

• **Choose the correct answer**

**1. Which rock of there is a permeable rock?**

- Slate.
- Marble.
- Coal.

**2. Which rock of there is a permeable rock?**

- Chalk
- Slate
- Granite

**3. Which rock splits into thin sheets?**

- Chalk
- Slate
- Granite

**4. Which is the best rock to tile a roof with?**

- Slate
- Chalk
- Coal

**5. Why is chalk used to write on blackboards?**

- Because it doesn't float
- Because its permeable.
- Because it can be erased easily.

**6. Why is granite often used for steps?**

- Because it can hardly break
- Because it can easily break
- Because it doesn't float.

**7. Why is marble used for statues and decorative flooring?**

- It has attractive colours and textures
- It wears away easily
- It doesn't float

**8. What could happen to a statue made from chalk?**

- It would split into thin sheets
- It could crumble over time
- It could float away

**9. Which rock is harder?**

- Chalk
- Sandstone
- Granite





**10. Which rock of there is an impermeable rock?**

- Slate.
- chalk
- Coal.

**11. Which rock of there is an impermeable rock?**

- chalk
- Marble.
- Coal.

Write the name of the rock you think is being used in the picture and explain why you think that rock was chosen. What are the properties of the rock that make it good for doing that particular job?

<p><b>Chopping board</b></p>  <p>Rock: <input type="text"/></p> <p>Reason: <input type="text"/></p> <p><input type="text"/></p> <p><input type="text"/></p> <p><input type="text"/></p>	<p><b>Fireplace</b></p>  <p>Rock: <input type="text"/></p> <p>Reason: <input type="text"/></p> <p><input type="text"/></p> <p><input type="text"/></p> <p><input type="text"/></p>
<p><b>Roof</b></p>  <p>Rock: <input type="text"/></p> <p>Reason: <input type="text"/></p> <p><input type="text"/></p> <p><input type="text"/></p> <p><input type="text"/></p>	<p><b>Pavement</b></p>  <p>Rock: <input type="text"/></p> <p>Reason: <input type="text"/></p> <p><input type="text"/></p> <p><input type="text"/></p> <p><input type="text"/></p>

### Uses of Rocks

Different rocks are used for different jobs. We use rocks to build roads, walls houses and to make other things.





# Taking care of the environment

## Choose the right answer:

1. To save the environment we need to reduce the use of ( plants - plastic)
2. To use a material again is ( reuse - reduce)
3. Pollution is to through ( rubbish - water) in the wrong place.
4. Pollution ( kills - grows ) animals and plants.
5. To help the environment people need to ( recycle - pollute) more.

## Write the correct word Infront of the sentence.

conservation

natural resources

recycle

reuse

reduce

1. To make new products from old products

2. Things found in nature used by living things

3. To use less of something

4. The wise or careful use of natural resources

5. To use something again instead of throwing it away



6. What will happen when people keep cutting trees?

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7. What is the meaning of pollution?

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Which choice conserves more resources?

	<b>sending a note to a friend</b>	paper note	email
	<b>cleaning kitchen counters</b>	paper towels	washable cloth towels
	<b>putting a new lightbulb in a lamp</b>	incandescent bulb	LED bulb
	<b>staying warm</b>	put on a sweater	turn up the heater
	<b>leaving a room</b>	turn off the lights	leave the lights on
	<b>getting clean</b>	take a short shower	take a full bath
	<b>drying laundry</b>	use the dryer	hang on a line
	<b>watering grass</b>	water in the middle of the day	water early in the morning

# Forces

## Choose the right answer:

1. ( Friction - push ) is a force that acts against the direction of motion.
2. ( Rough - Smooth) surface, causes more friction and it may slow down or stop the object.
3. ( Rough - Smooth) surface causes less friction.
4. Its easier to pull a wagon on ( floor - grass).
5. Some surfaces has very low friction like ( gravel - ice).

## Complete the sentences with the right answer:

1. A force is a \_\_\_\_\_ or a \_\_\_\_\_.
2. Things rubbing together cause a force called \_\_\_\_\_.
3. Friction \_\_\_\_\_ down and stops nearly every motion on Earth!
4. When we walk, the friction from our feet pushes against the \_\_\_\_\_.
5. A Push moves things \_\_\_\_\_ from you , while a Pull moves things \_\_\_\_\_ you.

Answer the following questions:

1) Name two things that can be pushed.

a) \_\_\_\_\_ b) \_\_\_\_\_

2) Name two things that can be pulled.

a) \_\_\_\_\_ b) \_\_\_\_\_

List two reasons why friction is important for us to function in our everyday life?

a. \_\_\_\_\_

b. \_\_\_\_\_

Why is it easier to cycle on road than on grass?

---

---

List **two** surfaces a car may struggle to move on due to not having enough friction.

- \_\_\_\_\_
- \_\_\_\_\_

Tick the possible effects that forces can have.

Forces can make things:

- |  |  |
|--|--|
| <input type="checkbox"/> evaporate     | <input type="checkbox"/> slow down     |
| <input type="checkbox"/> start to move | <input type="checkbox"/> change colour |
| <input type="checkbox"/> grow          | <input type="checkbox"/> change smell  |
| <input type="checkbox"/> speed up      | <input type="checkbox"/> stop          |

Fill in the missing words with words from the box:

Friction is a force that acts between two surfaces or objects that are moving, or trying to move, across each other.

Different \_\_\_\_\_ create different amounts of \_\_\_\_\_. This depends on the \_\_\_\_\_ of the surface, the object and the \_\_\_\_\_ between them.

force

friction

roughness

surfaces

# Materials and their properties

**Read the following questions and choose the best answer.**

1. Which of the following is not a hard material?

- a. metal
- b. stone
- c. glass
- d. fabric

2. Which of the following is an elastic material?

- a. metal
- b. wood
- c. rubber
- d. ceramic

3. Which of the following is a good conductor of heat?

- a. metal
- b. paper
- c. glass
- d. fabric

Fill in the gaps in the sentences below using the words in the word bank.

strong soft waterproof transparent flexible

You can use some words more than once.

Plastic is a good material for a watering can because it is \_\_\_\_\_ and \_\_\_\_\_.



Fabric is a good material for clothes because it is \_\_\_\_\_ and \_\_\_\_\_.

Glass is a good material for windows because it is

\_\_\_\_\_ and \_\_\_\_\_.



Wood is a good material for a chair because it is \_\_\_\_\_ and can be carved.

Rubber is a good material for bike tyres because it is \_\_\_\_\_,

\_\_\_\_\_ and \_\_\_\_\_.





Draw a line to match each word to its meaning.

squash

Hold an object with both hands and turn the hands in opposite directions.

bend

Hold an object with both hands and push the hands together.

twist

Hold an object with both hands and pull the hands away from each other.

stretch

Hold both ends of an object with two hands and bring both the ends inwards together.

Directions: Circle the answer.

1. All materials have  
a. corners                      b. properties                      c. transparent
  
2. Windows are usually made of  
a. glass                      b. metal                      c. cotton
  
3. We use wool to make  
a. a book                      b. houses                      c. a sweater
  
4. This is an essential property of umbrellas:  
a. opaque                      b. cheap                      c. waterproof
  
5. Metal is  
a. soft                      b. strong                      c. transparent

Part 2:

Directions: Match properties to their opposites.

absorbent •	• hard
cheap •	• flexible
soft •	• light
stiff •	• waterproof
heavy •	• expensive

Directions: Answer the questions using **complete sentences**.

1. Describe three properties of **Coal** . .

---

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2. Write two ways in which **cotton** and **glass** are different.

---

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3. Write two ways in which **metal** and **cardboard** are similar.

---

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# Model Answers

# Habitats

Choose the best answer:

1. A habitat is the natural home of an animal or ( **plant** - rock)
2. Many plants need ( soil - **light** ) from the sun.
3. Plants need ( **water** - seeds) or they will dry out.
4. Plants get their nutrients and grow their roots in ( **soil** - sun)
5. Oceans are large areas of ( **salt** - fresh ) water.
6. A rain forest has very tall ( **trees** - cacti).
7. The desert habitat is hot and ( wet - **dry**)
8. The desert habitat has fewer ( **plants** - sand)
9. There are many living things in the ( desert - **forest** ).
10. The forest animals have many plants to ( play - **eat**)
11. Very dry with little water and very few plants (**desert** - ocean).
12. Water lilies live in the ( **fresh water** - ocean ) habitat.
13. Arctic is very ( **cold** - warm) place.
14. Polar bears have thick ( feathers - **fur**).
- 15.

19. Lots of plants live by the ( desert - **river**) where they have a good habitat.
20. Rabbits and mice eat seeds and ( animals - **plants**)
21. A living thing finds what it needs in the right ( **habitat** - forest) .

**True or False:**

1. A place where animals and plants can find all their needs is called a habitat. ( true )
2. Plants need light, water, and air to survive. ( true )
3. When a plant doesn't get enough light it will be healthy. ( false )
4. In the hot desert the seed will die. ( true )
5. In the cold habitat the seed will grow. ( false )
6. By a river the seed will be healthy. ( true )
7. A frog lives near rocks to stay wet and find food. ( False )
8. In a fish tank, fish use the big stones and seaweed to hide. ( true )
9. A habitat is a place where animals and plants find all their needs.( true )
10. Plants need light, water, and air to survive. ( true )
11. A frog lives near rocks to stay wet and find food. ( false )
12. In the cold habitat the seed will grow. ( false )

1. A place where animals and plants can find all their needs is called a \_\_\_\_\_ **habitat** \_\_\_\_\_.
2. Living things need \_\_\_\_\_ **water** \_\_\_\_\_, \_\_\_\_\_ **air** \_\_\_\_\_, \_\_\_\_\_ **food** \_\_\_\_\_, and \_\_\_\_\_ **space** \_\_\_\_\_ to survive.
3. Palm tree can grow in desert because it doesn't need lots of \_\_\_\_\_ **water** \_\_\_\_\_.
4. Pine Trees are very tall to reach \_\_\_\_\_ **the sun light** \_\_\_\_\_.
5. \_\_\_\_\_ **plants** \_\_\_\_\_ cannot grow in the arctic because it is very cold.
6. Some plants live in the desert and have spiky leaves like \_\_\_\_\_ **cacti** \_\_\_\_\_.
7. Some animals store food in their bodies like the \_\_\_\_\_ **camel** \_\_\_\_\_.
8. A habitat is the natural home of an animal or \_\_\_\_\_ **a plant** \_\_\_\_\_.
9. The desert habitat is hot and \_\_\_\_\_ **dry** \_\_\_\_\_.
10. The forest animals have many plants to \_\_\_\_\_ **eat** \_\_\_\_\_.

**Name the habitat:**

Rain forest	desert	ocean	fresh water	arctic
-------------	--------	-------	-------------	--------

6. Very dry with little water and very few plants \_\_\_\_\_ **desert** \_\_\_\_\_.
7. Very cold habitat, where polar bear lives and no plants can survive.  
\_\_\_\_\_ **arctic** \_\_\_\_\_
8. Large amount of water where fish and whales live \_\_\_\_\_ **ocean** \_\_\_\_\_
9. Water lilies live in the \_\_\_\_\_ **fresh water** \_\_\_\_\_ habitat.
10. A habitat with lots of trees and large amount of rain. \_\_\_\_\_ **rain forest** \_\_\_\_\_

**Fill in the blanks.**

Cold	dry	fur	water	warm
------	-----	-----	-------	------

8. Arctic is very \_\_\_\_\_ **cold** \_\_\_\_\_ place.
9. Polar bears have thick \_\_\_\_\_ **fur** \_\_\_\_\_, it keeps them  
\_\_\_\_\_ **warm** \_\_\_\_\_.
10. The desert is very \_\_\_\_\_ **dry** \_\_\_\_\_.
- 11.



plants

habitat

animals

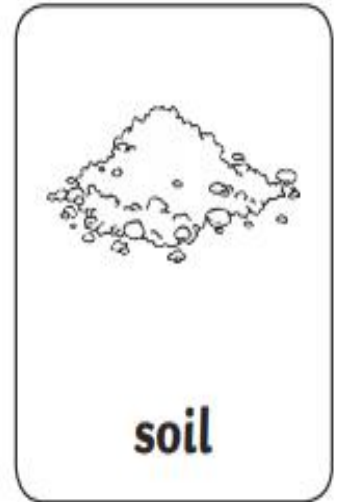
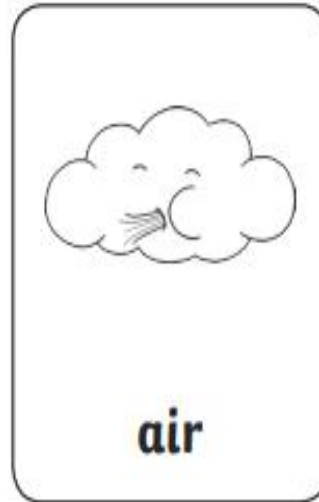
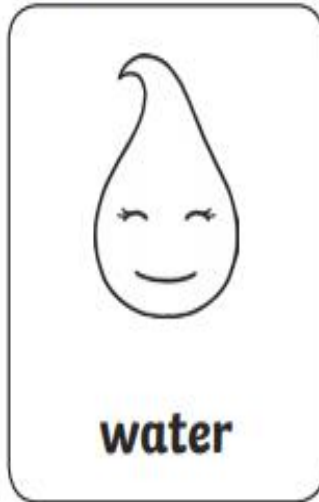
river

grow

12. Lots of plants live by the \_\_\_\_\_ **river** \_\_\_\_\_. These plants have a good habitat so they can live and \_\_\_\_\_ **grow** \_\_\_\_\_.
13. Rabbits and mice eat seeds and \_\_\_\_\_ **plants** \_\_\_\_\_. The snake and eagle eat small \_\_\_\_\_ **animals** \_\_\_\_\_.
14. A living thing finds what it needs in the right \_\_\_\_\_ **habitat** \_\_\_\_\_ .

# Plants Need...

Use the words below to finish the sentences.



Many plants need  from the sun.

Many plants need  or they will dry out.

Many plants need  to grow their roots in.

They get the nutrients they need from the soil.

Plants need ,  and   
which they use to make food.

# 1. Label the habitat.

Type in the name of the habitat under each picture.

Desert

Grassland

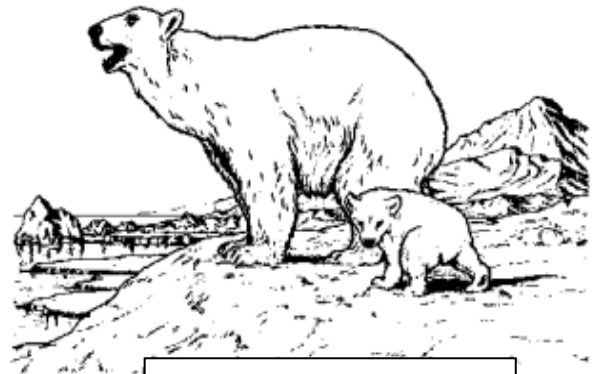
Rainforest

Arctic

Ocean



grassland



arctic



rainforest

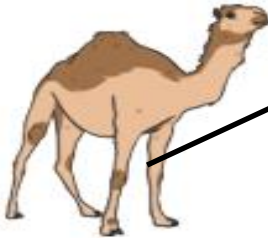


ocean



desert

Draw a line from the living thing to its habitat.



woodland



rainforest



desert



ocean



# Rocks

## True or False:

1. Chalk rocks are used to create heat. ( false )
2. Stones are small rocks. ( true )
3. Coal rocks are used to create heat. ( true )
4. Impermeable rocks mean it absorb water. ( false )
5. Granite can be used to make sinks. ( true )
6. Quarries are caves where we can find rocks. ( flase )
7. Riverbeds are one source of rocks. ( true )
8. Rocks are natural materials. ( true )

## Choose the best answer:

1. Some rocks are used to create heat like ( slate - coal).
2. Workers use diggers and ( explosives - salt ) to dig up in quarries.
3. This stone is white in colour ( coal - lime stone)
4. Slate is suitable for roofs because it is ( black - waterproof)
5. Permeable rocks means they are ( absorb water - waterproof)

**Fill in the blanks:**

Explosives

coal

slate

marble

1. Some rocks are used to create heat like \_\_\_\_\_ **coal** \_\_\_\_\_.
2. Workers use diggers and \_\_\_\_\_ **explosives** \_\_\_\_\_ to dig up in quarries.
3. \_\_\_\_\_ **marble** \_\_\_\_\_ is used to make carvings and statues.
4. These rocks are used to build roofs. \_\_\_\_\_ **slate** \_\_\_\_\_

**Answer the following questions.**

1. Which rocks are or could be white in colour? \_\_\_ **lime / chalk** \_\_\_\_\_
2. Which rocks are very hard? \_\_\_\_\_ **marble/ granite** \_\_\_\_\_
3. What happens to sandstone when it is damaged? \_ **it will turn into sand** \_\_\_\_\_
4. Which types of rock have layers? \_\_\_\_\_ **slate** \_\_\_\_\_
5. Why do you think marble is usually used for surfaces? \_\_\_ **because it is hard and waterproof** \_\_\_\_\_

**Match the word to its meaning:**

A place where the surface rocks are removed.

A hole dug to extract rocks and minerals.

When water soaks into the material.

A hard material that comes from the earth.

We use it to write on blackboards.

Absorb

Mine

Chalk

Rock

Quarry

• Choose the correct answer

1. Which rock of there is a permeable rock?

- Slate.
- Marble.
- Coal.**

2. Which rock of there is a permeable rock?

- Chalk**
- Slate
- Granite

3. Which rock splits into thin sheets?

- Chalk
- Slate**
- Granite

4. Which is the best rock to tile a roof with?

- Slate**
- Chalk
- Coal

5. Why is chalk used to write on blackboards?

- Because it doesn't float
- Because its permeable.
- Because it can be erased easily.**

6. Why is granite often used for steps?

- Because it can hardly break**
- Because it can easily break
- Because it doesn't float.



**7. Why is marble used for statues and decorative flooring?**

- **It has attractive colours and textures**
- It wears away easily
- It doesn't float

**8. What could happen to a statue made from chalk?**

- It would split into thin sheets
- **It could crumble over time**
- It could float away

**9. Which rock is harder?**

- Chalk
- Sandstone
- **Granite**





**10. Which rock of there is an impermeable rock?**

- **Slate.**
- chalk
- Coal.

**11. Which rock of there is an impermeable rock?**

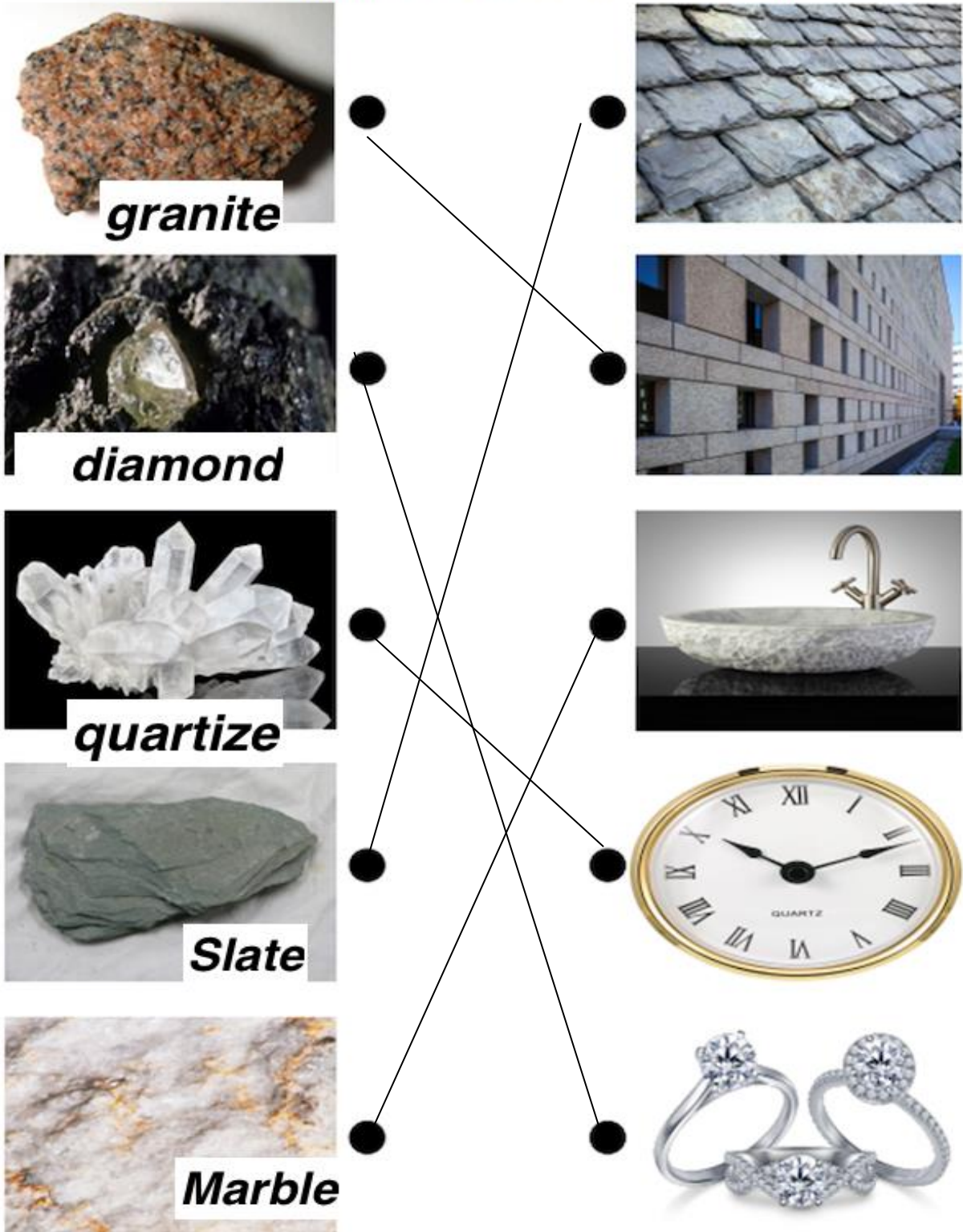
- chalk
- **Marble.**
- Coal.

Write the name of the rock you think is being used in the picture and explain why you think that rock was chosen. What are the properties of the rock that make it good for doing that particular job?

<p><b>Chopping board</b></p>  <p>Rock: granite</p> <p>Reason:</p> <p>waterproof</p> <p>hard</p>	<p><b>Fireplace</b></p>  <p>Rock: coal</p> <p>Reason:</p> <p>Create heat when it burns</p>
<p><b>Roof</b></p>  <p>Rock: slate</p> <p>Reason:</p> <p>waterproof</p> <p>Splits into thin layers</p>	<p><b>Pavement</b></p>  <p>Rock: marble</p> <p>Reason:</p> <p>waterproof</p> <p>hard</p>

### Uses of Rocks

Different rocks are used for different jobs. We use rocks to build roads, walls houses and to make other things.



**granite**

**diamond**

**quartzite**

**Slate**

**Marble**

# Taking care of the environment

## Choose the right answer:

6. To save the environment we need to reduce the use of ( plants - **plastic**)
7. To use a material again is ( **reuse** - reduce)
8. Pollution is to through ( **rubbish** - water) in the wrong place.
9. Pollution ( **kills** - grows ) animals and plants.
10. To help the environment people need to ( **recycle** - pollute) more.

## Write the correct word Infront of the sentence.

conservation

natural resources

recycle

reuse

reduce

1. To make new products from old products

recycle

2. Things found in nature used by living things

Natural resources

3. To use less of something

reduce

4. The wise or careful use of natural resources

conservation

5. To use something again instead of throwing it away

reuse

6. What will happen when people keep cutting trees?

The Pollution will increase, many animals will lose their homes and we will have less oxygen.

---









7. What is the meaning of pollution?

People throwing trash in places where it should not be.

---



Which choice conserves more resources?

	<b>sending a note to a friend</b>	paper note	<u>email</u>
	<b>cleaning kitchen counters</b>	paper towels	<u>washable cloth towels</u>
	<b>putting a new lightbulb in a lamp</b>	incandescent bulb	<u>LED bulb</u>
	<b>staying warm</b>	<u>put on a sweater</u>	turn up the heater
	<b>leaving a room</b>	<u>turn off the lights</u>	leave the lights on
	<b>getting clean</b>	<u>take a short shower</u>	take a full bath
	<b>drying laundry</b>	use the dryer	<u>hang on a line</u>
	<b>watering grass</b>	water in the middle of the day	<u>water early in the morning</u>

# Forces

## Choose the right answer:

6. ( **Friction** - push ) is a force that acts against the direction of motion.
7. ( **Rough** - Smooth) surface, causes more friction and it may slow down or stop the object.
8. ( Rough - **Smooth**) surface causes less friction.
9. Its easier to pull a wagon on ( **floor** - grass).
10. Some surfaces has very low friction like ( gravel - **ice**).

## Complete the sentences with the right answer:

6. A force is a \_\_\_\_\_ **push** \_\_\_\_\_ or a \_\_\_\_\_ **pull** \_\_\_\_\_.
7. Things rubbing together cause a force called \_\_\_\_\_ **friction** \_\_\_\_\_.
8. Friction \_\_\_\_\_ **slows** \_\_\_\_\_ down and stops nearly every motion on Earth!
9. When we walk, the friction from our feet pushes against the \_\_\_\_\_ **floor** \_\_\_\_\_.
10. A Push moves things \_\_\_\_\_ **away** \_\_\_\_\_ from you , while a Pull moves things \_\_\_\_\_ **towards** \_\_\_\_\_ you.

Answer the following questions:

1) Name two things that can be pushed.

a) \_\_\_\_\_ b) \_\_\_\_\_

2) Name two things that can be pulled.

a) \_\_\_\_\_ b) \_\_\_\_\_

List two reasons why friction is important for us to function in our everyday life?

a. \_\_\_\_\_ Friction by the brakes stops moving vehicles \_\_\_\_\_

b. \_\_\_\_\_ Frictions of the match creates heat \_\_\_\_\_

Why is it easier to cycle on road than on grass?

\_\_\_\_\_ Because the floor has less friction . \_\_\_\_\_



List **two** surfaces a car may struggle to move on due to not having enough friction.

•

•

Tick the possible effects that forces can have.

Forces can make things:

evaporate

slow down

start to move

change colour

grow

change smell

speed up

stop

Fill in the missing words with words from the box:

Friction is a force that acts between two surfaces or objects that are moving, or trying to move, across each other.

Different  create different amounts of . This depends on the  of the surface, the object and the  between them.

force

friction

roughness

surfaces

# Materials and their properties

Read the following questions and choose the best answer.

1. Which of the following is not a hard material?

- a. metal
- b. stone
- c. glass
- d. **fabric**

2. Which of the following is an elastic material?

- a. metal
- b. wood
- c. **rubber**
- d. ceramic

3. Which of the following is a good conductor of heat?

- a. **metal**
- b. paper
- c. glass
- d. fabric

Fill in the gaps in the sentences below using the words in the word bank.

strong soft waterproof transparent flexible

You can use some words more than once.

Plastic is a good material for a watering can because it is  and .



Fabric is a good material for clothes because it is  and .

Glass is a good material for windows because it is

and

.



Wood is a good material for a chair because it is  and can be carved.

Rubber is a good material for bike tyres because it is .

and

.



Draw a line to match each word to its meaning.

squash

Hold an object with both hands and turn the hands in opposite directions.

bend

Hold an object with both hands and push the hands together.

twist

Hold an object with both hands and pull the hands away from each other.

stretch

Hold both ends of an object with two hands and bring both the ends inwards together.

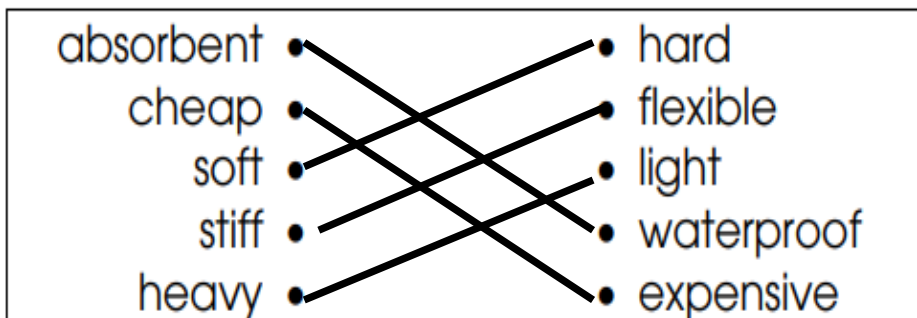
Directions: Circle the answer.

1. All materials have  
a. corners      b. properties      c. transparent
  
2. Windows are usually made of  
a. glass      b. metal      c. cotton
  
3. We use wool to make  
a. a book      b. houses      c. a sweater
  
4. This is an essential property of umbrellas:  
a. opaque      b. cheap      c. waterproof
  
5. Metal is  
a. soft      b. strong      c. transparent

Part 2:

Directions: Match properties to their opposites.

absorbent	•	hard	•
cheap	•	flexible	•
soft	•	light	•
stiff	•	waterproof	•
heavy	•	expensive	•



Directions: Answer the questions using **complete sentences**.

1. Describe three properties of **Granite** .

Hard - waterproof - strong

2. Write two ways in which **cotton** and **glass** are different.

Cotton is absorbent and soft but Glass is waterproof and strong.

3. Write two ways in which **metal** and **cardboard** are similar.

Both are hard and not transparent.