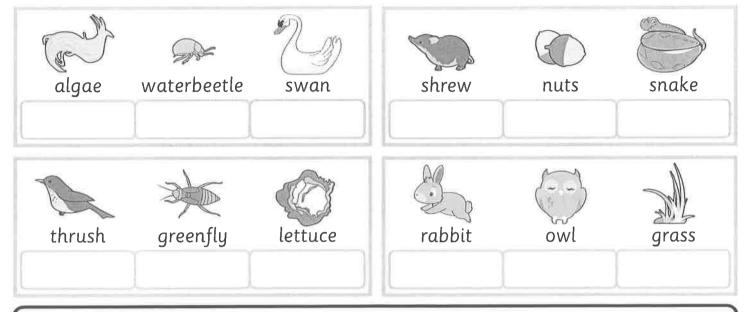


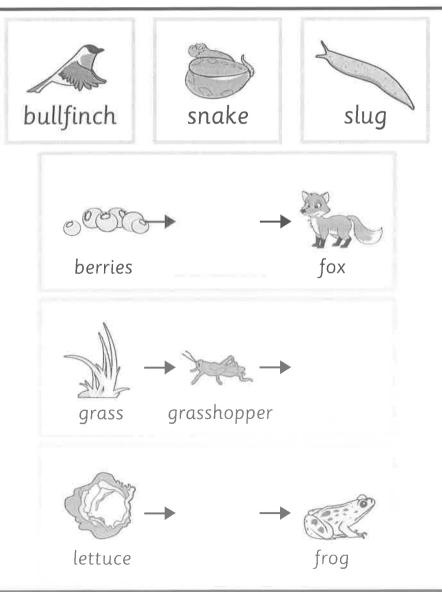
Name:

Class:

In the food chains below label the producer, prey and predator.



Now choose from these animals or plants to fill in the gaps in the following food chains. Draw and label.



Class:





waterbeetle

In the food chains below label the producer, prey and predator.

producer

algae

prey



predator



shrew

prey



nuts



snake

producer predator



thrush

predator



greenfly



lettuce

producer prey



rabbit

prey



owl



grass

producer predator

Now choose from these animals or plants to fill in the gaps in the following food chains. Draw and label.



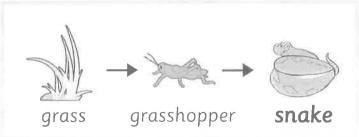
bullfinch

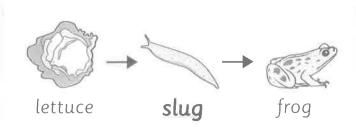


snake













| | illing i | | | | | | Education C |
|-----------|---------------------|---------------------|--|--|---------------|------------|----------------------|
| J Acti | ivity Sheet | | | | Class: | | |
| ill in t | he missing | words to | complete the sen | tences ab | out temperatu | re. | |
| m | easure | hot | Fahrenheit | touch | dangerous | burn | |
| | ice | lollies | hot chocolate | Celsius | heat | cold | |
| | | | neasure of ything has a te | | | W : | or |
| - | | _ feel c | tell the tempe | s such a | .s | | feel hot. |
| | | | cures can be r are too hot t | | | | |
| Th the | ey come e temper | in diffe ature o | tools that are erent shapes a utside and in, ody temperatur | nd sizes to indic | . Thermomet | ters are | used to tell |
| | | | asured in units ees Celsius is | | • | | |
| | | | temperature of ea , the warm picture | | | ctures bli | ue. |
| | ling water | 3°0 | | 100° -90° -80° -70° -60° -50° | 52° | c \ | warm water Granny's |
| - : C | stream | | | 40° 30° | | h — | ot chocolate |
| 0 | 0 | -10° | °C | 20° | 5°0 | | |

-10°C

0°C

snow

l ice

juice

5°C

-3°C

-10°

-0°

-10°



Bolling Point

Activity Sheet

EducationCity

| Name: | Class: |
|-------|--------|
| | |

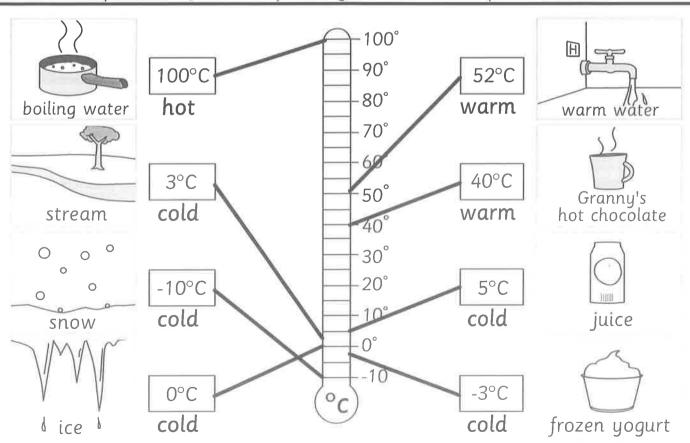
Fill in the missing words to complete the sentences about temperature.

| measure | hot | Fahrenheit | touch | dangerous | burn |
|---------|---------|---------------|---------|-----------|------|
| ice | lollies | hot chocolate | Celsius | heat | cold |

- Temperature is a measure of <u>heat</u>. It tells us how <u>hot</u> or <u>cold</u> something is. Everything has a temperature.
- We can sometimes tell the temperature of something by <u>touch</u>. Ice <u>lollies</u> feel cold. Hot drinks such as <u>hot chocolate</u> feel hot. Very hot temperatures can be <u>dangerous</u>. A hot oven, a fire and boiling water are too hot to touch and could <u>burn</u> us.
- Thermometers are tools that are used to <u>measure</u> temperature. They come in different shapes and sizes. Thermometers are used to tell the temperature outside and in, to indicate the temperature of food and to measure body temperature.
- Temperature is measured in units called degrees <u>Fahrenheit</u> and <u>Celsius</u>. Degrees Celsius is used to measure the temperature of the weather.

Draw arrows to show the temperature of each picture.

Circle the hot pictures red, the warm pictures yellow and the cold pictures blue.



Class:

| Name. | | | | | |
|-------|-----|---|-------|--|--|
| | N.I | _ | _ | | |

Write the opposites or reverse of each of the following in the boxes below.

| Reversible changes ——— | | |
|------------------------|----|-----|
| | | |
| | | |
| Condensation | | |
| | | |
| | | |
| Freezing | | 100 |
| | 15 | |

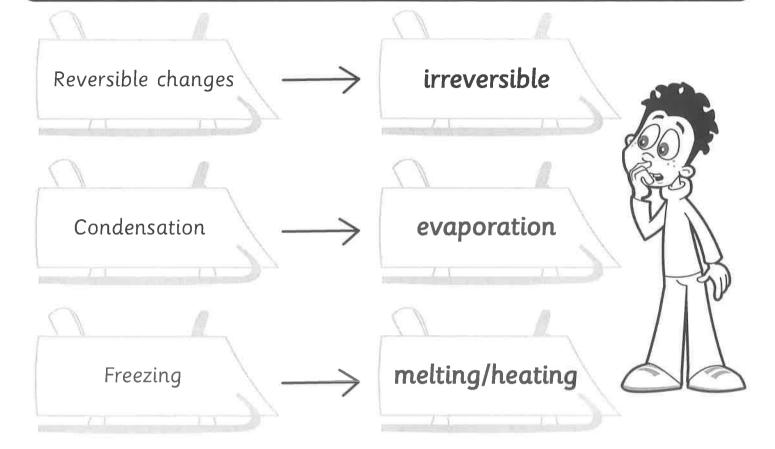
Now complete the following.

Use the words liquid, solids and gas to help you explain your answers.

- 1 Evaporation happens when
 - 2 When a liquid turns to a solid it is said to have_
 - 3 Oh no! Manu has left the box carts out all night and they have got wet. Luckily the sun has come out. What process will help them dry off?
 - **4** Granny has heated up some ice cubes. What will happen to them and why?

Class:

Write the opposites or reverse of each of the following in the boxes below.



Now complete the following.

Use the words liquid, solids and gas to help you explain your answers.

Suggested answers

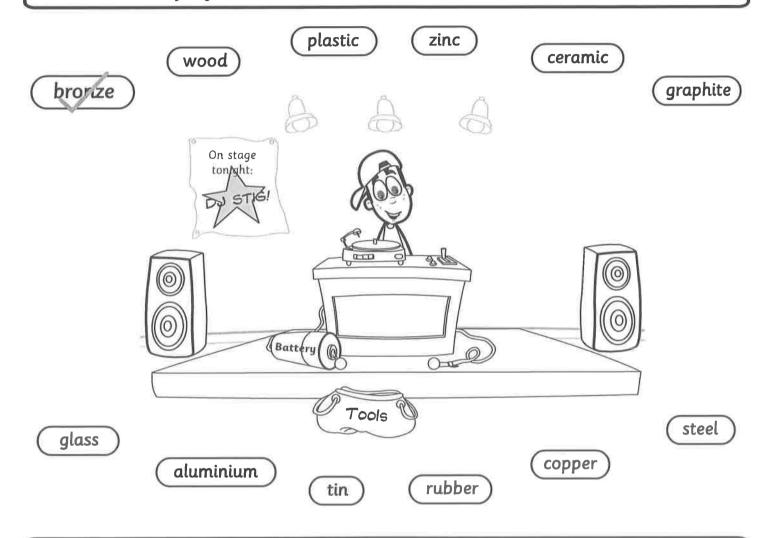
- 1 Evaporation happens when heat makes water dry up.

 Water is a liquid and it turns into a gas.
- 2 When a liquid turns to a solid it is said to have solidified.
- 3 Oh no! Manu has left the box carts out all night and they have got wet. Luckily the sun has come out. What process will help them dry off? Evaporation.
- 4 Granny has heated up some ice cubes. What will happen to them and why? The ice cubes will melt. The heat will turn the solid into a liquid.

| | Activity | Sheet |
|-----|----------|-------|
| A 1 | | |

Class:

Tick the materials that conduct electricity and cross out the ones that do not. One has been done for you.



Now fill in the gaps using the words.

(conductor) (lead) (cheap) (copper) (wire) bronze (conducts) (expensive) (conductor)

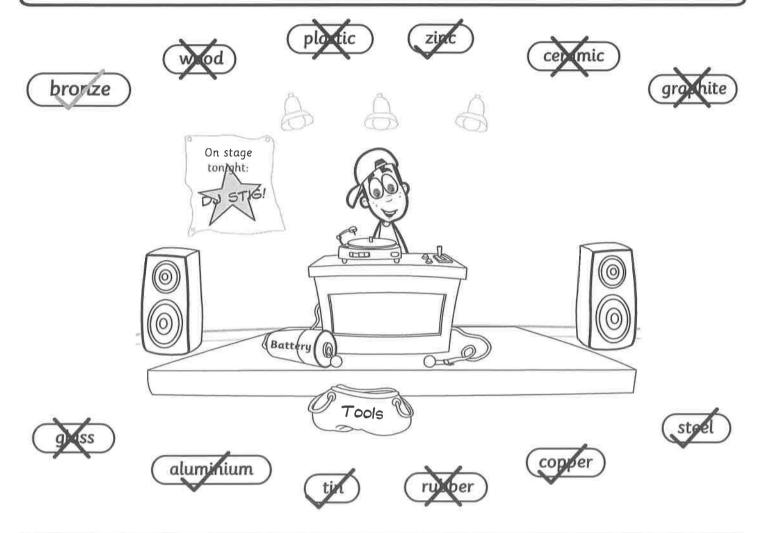
- 1 _____ is an electrical _____ made from copper and tin.
- 2 ______ is a metal used in solder, that helps us join things in electric circuits.
- Gold is an ______metal that _____electricity.
- 4 ______ is a metal that most electrical wires are made from because :
 - a It is a good ______ of electricity.
 - **(b)** It can easily be stretched into______ without breaking.
 - C It is quite______.

| \Box | Activity | Sheet |
|--------|----------|-------|
| | | |

Name:

Class:

Tick the materials that conduct electricity and cross out the ones that do not. One has been done for you.



Now fill in the gaps using the words.

(conductor) (lead) cheap (copper) (wire) bronze) conducts (expensive) conductor)

- 1 wire is an electrical conductor made from copper and tin.
- 2 <u>lead</u> is a metal used in solder, that helps us join things in electric circuits.
- 3 Gold is an expensive metal that conducts electricity.
- **Copper** is a metal that most electrical wires are made from because :-
 - (a) It is a good conductor of electricity.
 - **b** It can easily be stretched into wire without breaking.
 - © It is quite cheap

Gooa Vibrations

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| | 355005 |

| Activity Sheet | |
|----------------|-------|
| Name: | Class |

Fill in the blanks with either 'higher' or 'lower'.

- A small whistle will make pitched sounds than a bigger whistle.
- A large drum will make pitched sounds than a smaller drum.
- If you tighten the skin on a drum it makes the pitch
- If you make the length of a guitar string shorter you make the pitch
- If you tighten a guitar string, by turning its key, you make its pitch
- On a guitar the thicker strings have a pitch.

Use the words below to complete the sentences.

strings

vibrations

skin

air

- **7** Sounds are made by
- 8 On a guitar the vibrate.
- 9 In a whistle the inside it vibrates.
- **10** On a drum the vibrates.



G Good Vibrations

| But | EducationCity |
|-----|----------------------|
| | Edocalione |

| | Activity | Sheet | | |
|--|----------|-------|--|--|
| | | | | |

Name:

Class:

Fill in the blanks with either 'higher' or 'lower'.

- A small whistle will make higher pitched sounds than a bigger whistle.
- A large drum will make lower pitched sounds than a smaller drum.
- 3 If you tighten the skin on a drum it makes the pitch higher
- If you make the length of a guitar string shorter you make the pitch higher
- If you tighten a guitar string, by turning its key, you make its pitch **higher**
- On a guitar the thicker strings have a ... lower pitch.

Use the words below to complete the sentences.

strings

vibrations

skin

air

- 7 Sounds are made by vibrations
- 8 On a guitar the **strings** vibrate.
- In a whistle the air inside it vibrates.
- 10 On a drum the skin vibrates.



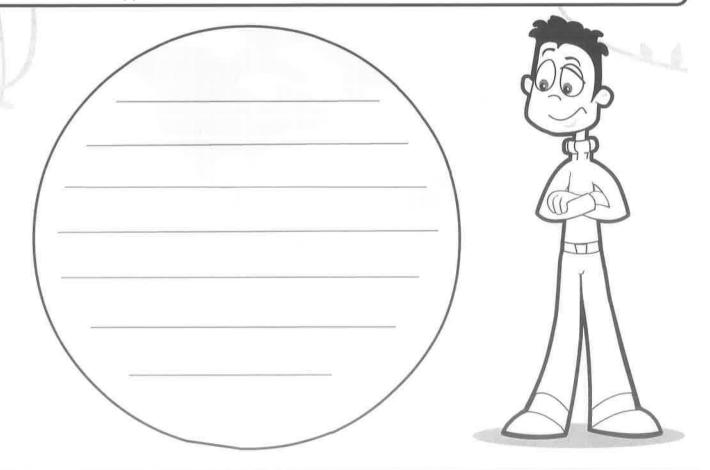


| Name: | Class: |
|-------|--------|
|-------|--------|

In what ways can humans affect the environment? List as many harmful and beneficial ways that you can think of.

| Negative effects on the environment |
|-------------------------------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

How can humans support the environment?



Class:

| -1 | Ia | m | e: |
|----|----|---|----|

In what ways can humans affect the environment? List as many harmful and beneficial ways that you can think of.

Positive effects on the environment

Negative effects on the environment

Suggested answers

Planting more trees.

Caring for endangered species.

Pollution from industry. Litter.

How can humans support the environment?

Suggested answers

Recycling

Replanting trees







Overview

In this 60 minute activity, pupils consider a range of ways that humans can impact on the environment. They highlight the positive and negative aspects of human activity and then take on the role of a supporter or protestor and formulate an argument for a debate. Additional time will be needed to carry out the debate.

Resources and Preparation

- Access to the online activity
- Class whiteboard and pen
- Large pieces of sugar paper and pens
- Organise the class into six groups

Lesson Structure

- 0-5 minutes Explain to the pupils that you would like them to think about the effect that humans can have on the environment. Ask them what they think you mean by this and record their ideas on the whiteboard.
- 5-15 minutes Show the pupils the on-line activity and pause to discuss the issues raised. Once the activity has been played through, ask pupils how their thinking has developed following on from the activity.
- 15 25 minutes Explain to the pupils that you would like them to consider one particular issue, e.g. building development, agriculture or industry and to think about the reasons why humans may engage in the activity. Organise the class so that two groups cover each subject and ask them to record their ideas on the sugar paper. As the pupils work, circulate to support their understanding.
- 25 35 minutes Tell the pupils to leave their pieces of sugar paper on their tables and draw the class back together. Ask them to circulate to read each other's ideas. Then bring everyone back together and discuss each issue in turn.
- **25 30 minutes** Ask pupils whether they think that this type of human activity is necessary and if so why, or if not, why not. Explain that you would like to hold a debate to consider 'Is this human activity necessary?' Organise the class so that one group who made a poster on industry takes the stance that it is necessary while the other group argues against it.
- **30 45 minutes** Allow time for the pupils to formulate their arguments and circulate to support their ideas. Stop the class as and when necessary to share thoughts.
- 45 60 minutes plenary Once the pupils have drafted their argument, draw them back together and ask them to share their ideas. Additional time will need to be set aside for the debate.

Name: Class:

Find the variables in each experiment. Then decide if the test is a fair test.

Manu wanted to investigate whether a ball would bounce higher on a hard or soft surface. First, he dropped a small ball onto a wooden floor.

Then he measured how high it bounced.

Then he dropped a medium sized ball on to a carpet and measured how high it bounced.



Variables:

Is this a fair test?

2 Klara wanted to find out if sugar dissolves as quickly in cold water as it does in hot water.

She poured 200 ml of cold water into a 500 ml jug and 200 ml of hot water into another 500 ml jug.

She then added 5 teaspoons of sugar to the hot water and stirred it with a spoon until it had all dissolved.

She timed how long it took for the sugar to dissolve.

She then added 5 teaspoons of sugar to the cold water and again stirred it in until it had all dissolved.

Again she timed how long it took for the sugar to dissolve.

Variables:

Is this a fair test?

3 Star wanted to investigate whether a car would travel faster on a wooden ramp or a carpeted ramp.

She pushed a red car down the wooden ramp and timed how long it took for the car to reach the bottom of the ramp.

She placed a blue car at the top of the carpeted ramp and allowed it to roll down.

Again, she timed how long it took for the car to reach the bottom of the ramp.

Variables:

Is this a fair test?

Which of the tests are not fair?

On the back of the sheet choose one of them and rewrite it so that it becomes a fair test.

Education C

Name:

Class:

Find the variables in each experiment. Then decide if the test is a fair test.

Manu wanted to investigate whether a ball would bounce higher on a hard or soft surface.

First, he dropped a small ball onto a wooden floor.

Then he measured how high it bounced.

Then he dropped a medium sized ball on to a carpet and measured how high it bounced.

Variables:

surface, ball size

Is this a fair test?

no

2 Klara wanted to find out if sugar dissolves as quickly in cold water as it does in hot water.

She poured 200 ml of cold water into a 500 ml jug and 200 ml of hot water into another 500 ml jug.

She then added 5 teaspoons of sugar to the hot water and stirred it with a spoon until it had all dissolved.

She timed how long it took for the sugar to dissolve.

She then added 5 teaspoons of sugar to the cold water and again stirred it in until it had all dissolved.

Again she timed how long it took for the sugar to dissolve.

Variables:

amount of water, water temperature, amount of sugar, stirring/not stirring

Is this a fair test?

yes

Star wanted to investigate whether a car would travel faster on a wooden ramp or a carpeted ramp.

She pushed a red car down the wooden ramp and timed how long it took for the car to reach the bottom of the ramp.

She placed a blue car at the top of the carpeted ramp and allowed it to roll down.

Again, she timed how long it took for the car to reach the bottom of the ramp.

Variables:

surface, type of car, pushing/rolling

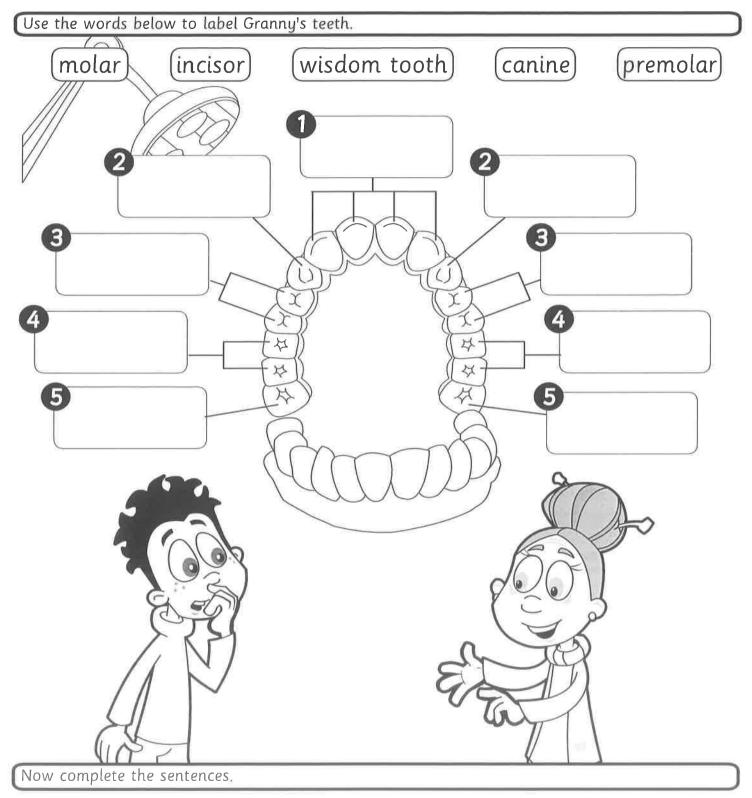
Is this a fair test?

no

Which of the tests are not fair?

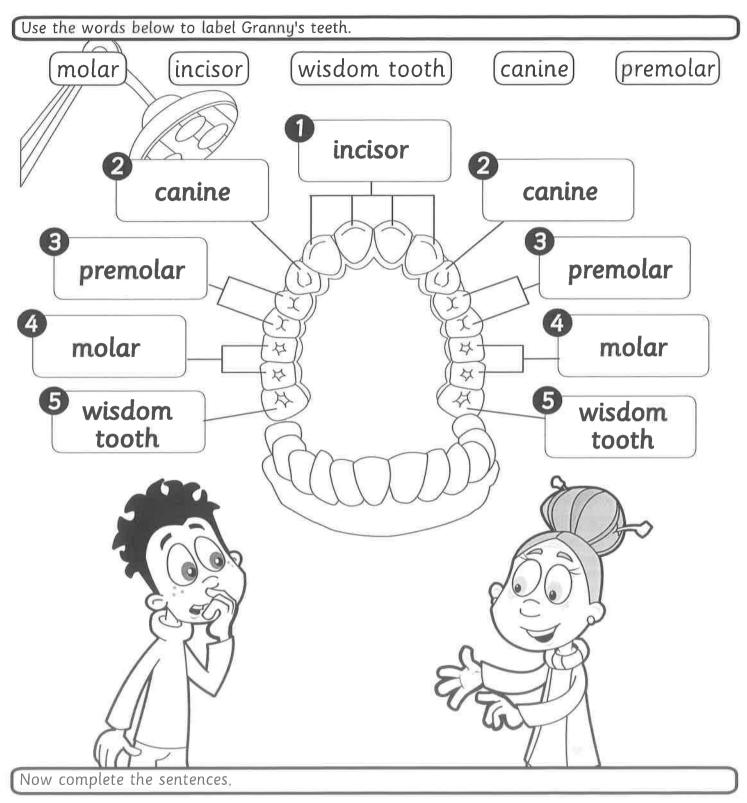
On the back of the sheet choose one of them and rewrite it so that it becomes a fair test.





- The pointed teeth near the front of your mouth are called ______.
- The flat teeth at the back of your mouth are called _______
- The sharp teeth at the front of your mouth are called _______





- The pointed teeth near the front of your mouth are called <u>canines</u>
- molars The flat teeth at the back of your mouth are called ___
- The sharp teeth at the front of your mouth are called **incisors**

Search Party

Activity Sheet

EducationCity

Name:

Class:

Put all the living things into the correct place on the T-charts. One has been filled in to get you started.







ladybug



cactus



earthworm)



dolphin

MM





butterfly



cat



snail



fir tree

| can move from place to place | cannot move from place to place | 2 plant | not a plant |
|------------------------------|---------------------------------|----------------|--------------------|
| frog | | | |
| | | | |
| | | | |

Now put all of the animals into these carrol diagrams.

3

mammal

not a mammal



not an invertebrate



searcn rarty

Activity Sheet

EducationCity

Name:

Class:

Put all the living things into the correct place on the T-charts. One has been filled in to get you started.







ladybug



cactus



earthworm



dolphin

My

grass



butterfly



cat



snail



fir tree

| can move from place to place | cannot move from place to place | 2 plant | not a plant |
|--|---------------------------------|-----------------------------|--|
| frog ladybug earthworm dolphin snail butterfly cat | cactus grass fir tree | cactus grass fir tree | frog ladybug earthworm dolphin snail butterfly cat |

Now put all of the animals into these carrol diagrams,

| 3 mammal | not a mammal | 4 invertebrate | not an invertebrate |
|-----------------|--|--|----------------------------|
| dolphin cat | frog ladybug earthworm snail butterfly | ladybug earthworm snail butterfly | dolphin cat frog |

