A FREE RESOURCE PACK FROM EDUCATIONCITY

Everyday Materials

Science

School Worksheets

Age 7–11

Suitability

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Everyday Materials Worksheets

What Does This Pack Include?

This pack has been created by teachers, for teachers. In it, you'll find high quality Activity Sheets, their answer sheets and a selection of ThinkIts to support your students to develop their knowledge about the everyday materials that surround them.

To go directly to the content, simply click on the title in the index below:

HARDWARE STORE:	
Learning Objective: **Everyday materials** Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock.	• Activity Sheet • Activity Sheet with Answers
SPLISH SPLASH:	
Learning Objective: **Everyday materials** Describe the simple physical properties of a variety of everyday materials.	• Activity Sheet • Activity Sheet with Answers
TREASURE HUNT:	
Learning Objective: **Everyday materials** Describe the simple physical properties of a variety of everyday materials.	• Activity Sheet • Activity Sheet with Answers
BITS AND PIECES:	
Learning Objective: **Everyday materials** Compare and group together a variety of everyday materials on the basis of their simple physical properties.	• Activity Sheet • Activity Sheet with Answers
PICK AND MIX:	
Learning Objective: **Everyday materials** Compare and group together a variety of everyday materials on the basis of their simple physical properties.	• Activity Sheet • Activity Sheet with Answers
PICNIC STOP:	
Learning Objective: **Everyday materials** Compare and group together a variety of everyday materials on the basis of their simple physical properties.	• Activity Sheet • Activity Sheet with Answers
ROCK AND ROLL:	
Learning Objective: **Everyday materials** Compare and group together a variety of everyday materials on the basis of their simple physical properties.	• Activity Sheet • Activity Sheet with Answers
METAL MATTERS:	
Learning Objective: **Everyday materials** Describe the simple physical properties of a variety of everyday materials.	• ThinkIt Question • ThinkIt Answer
SAME SAME:	
Learning Objective: **Everyday materials** Describe the simple physical properties of a variety of everyday materials.	• ThinkIt Question • ThinkIt Answer
GRANNY'S HOUSE:	
Learning Objective: **Uses of everyday materials** Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.	• Activity Sheet • Activity Sheet with Answers
GRANNY'S HOUSE:	
Learning Objective: **Uses of everyday materials** Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.	• Activity Sheet • Activity Sheet with Answers

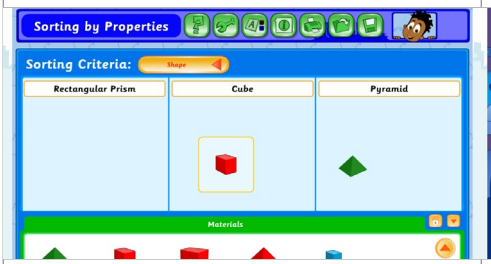
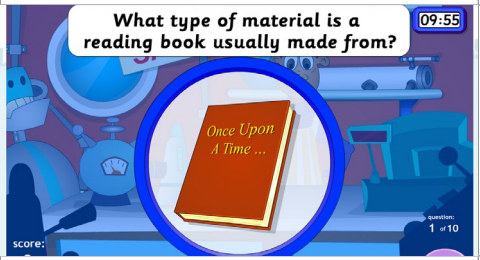
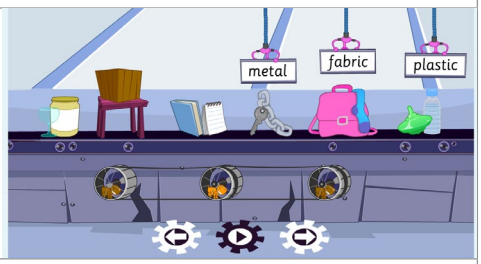
Continued...

Everyday Materials Worksheets (Continued)

HARDWARE STORE:	
Learning Objective: **Uses of everyday materials** Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.	• Activity Sheet • Activity Sheet with Answers
JUNKYARD:	
Learning Objective: **Working scientifically** Identifying and classifying.	• Activity Sheet • Activity Sheet with Answers
MINE FOR DIAMONDS:	
Learning Objective: **Uses of everyday materials** Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.	• Activity Sheet • Activity Sheet with Answers
WILL IT BEND?:	
Learning Objective: **Uses of everyday materials** Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	• Activity Sheet • Activity Sheet with Answers
MAKING THINGS WITH MATERIALS:	
Learning Objective: **Uses of everyday materials** Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.	• ThinkIt Question • ThinkIt Answer
WHY USE PLASTIC?:	
Learning Objective: **Uses of everyday materials** Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.	• ThinkIt Question • ThinkIt Answer

Other Resources Linking to the Theme

Before deciding what to include in your lesson, check out our online content relating to everyday materials. It's simple to find, just enter the Content ID number into EducationCity's Search Content tool!

Topic Tools: Explore Concepts as a Class	**Activities:** Educational Content	**Learn Screens:** Introduce or Reinforce a New Concept
Sorting by Properties - *Content ID: 13479*	**Hardware Store** - *Content ID: 527*	**Bits and Bobs** - *Content ID: 13377*
		
Use the Carroll diagrams to sort objects based on the chosen criteria. It's a great class activity!	Identify objects made out of paper, fabric, metal, clay and glass with our interactive Activity.	Look at common objects with your class and see what materials they are typically made from with this Learn Screen.

Enjoyed these resources?

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or call us on +44 (0)1572 725080!

EducationCity®

Hardware Store

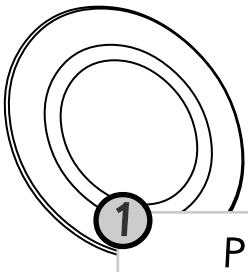
Activity Sheet

EducationCity

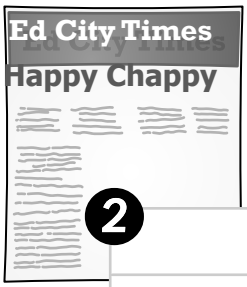
Name: _____ Class: _____

Here is Manu in his hardware store.
Use the words in the boxes below to label the objects correctly.
One has been done for you.

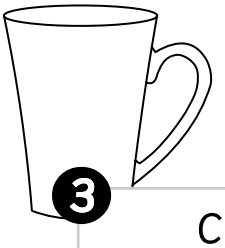
metal | paper | fabric | clay | glass



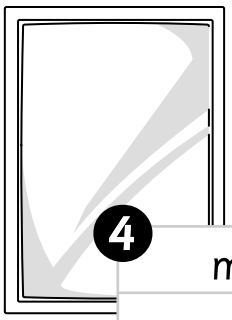
1 Plate
clay



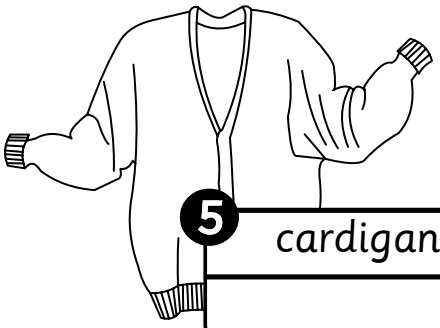
2



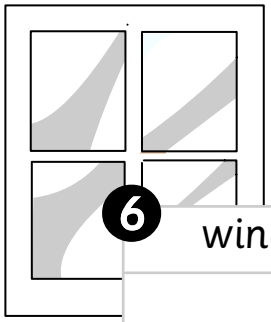
3 Cup



4 mirror

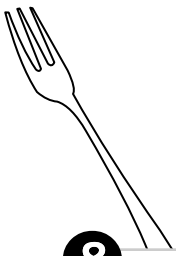


5 cardigan

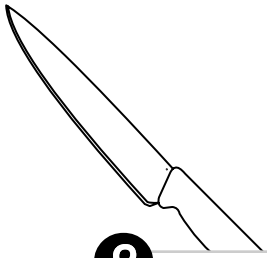


6 window

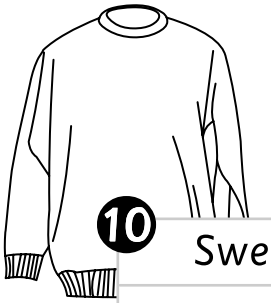
7 Playing cards



8 Fork



9 Knife



10 Sweater

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Hardware Store

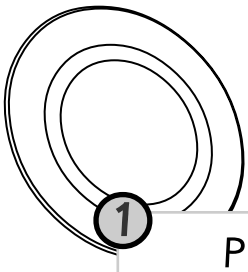
Activity Sheet

EducationCity

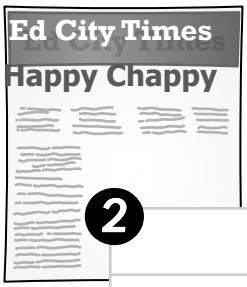
Name: _____ Class: _____

Here is Manu in his hardware store.
Use the words in the boxes below to label the objects correctly.
One has been done for you.

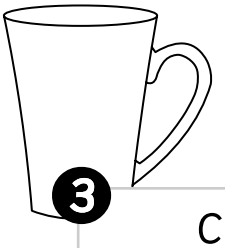
metal | paper | fabric | clay | glass



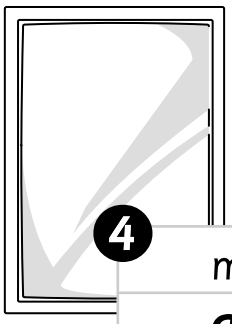
1 Plate
clay



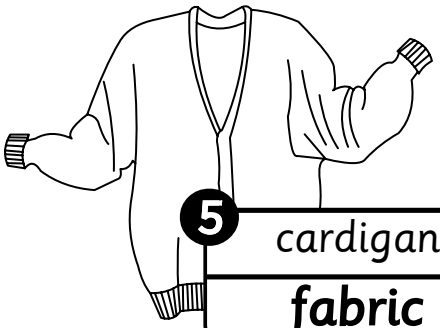
2 **paper**



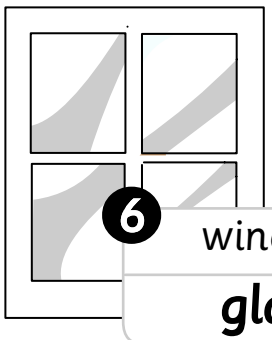
3 Cup
clay



4 mirror
glass

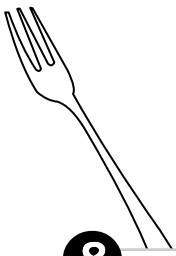


5 cardigan
fabric

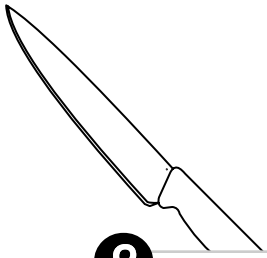


6 window
glass

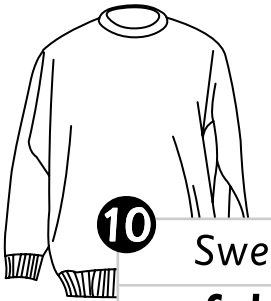
7 Playing cards
paper



8 Fork
metal



9 Knife
metal



10 Sweater
fabric

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Splish Splash

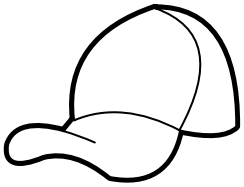
Activity Sheet

EducationCity

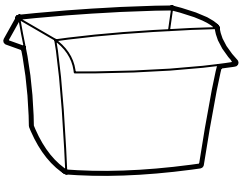
Name: _____ Class: _____

Colour in the waterproof materials.
Draw a cross through the non-waterproof materials.

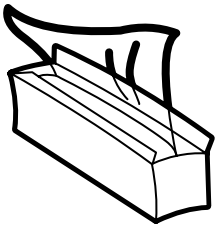
Lunchbox



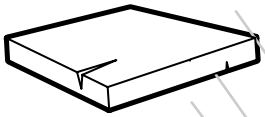
Baseball cap



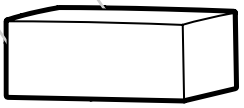
Cardboard box



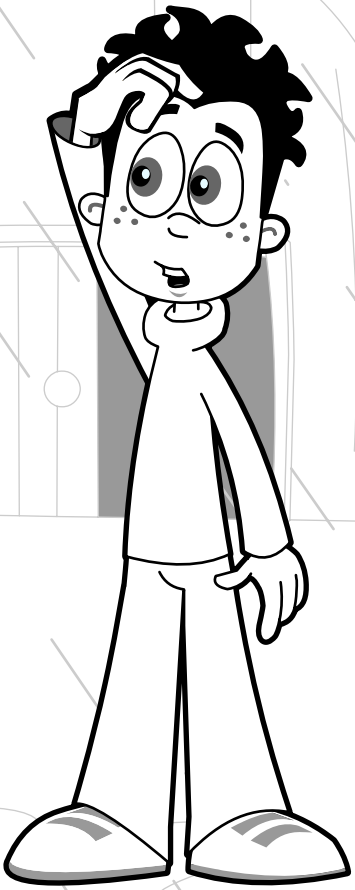
Cling film

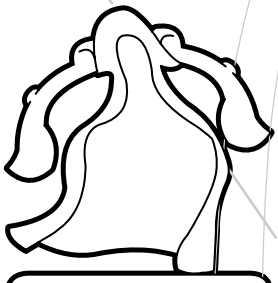


Concrete

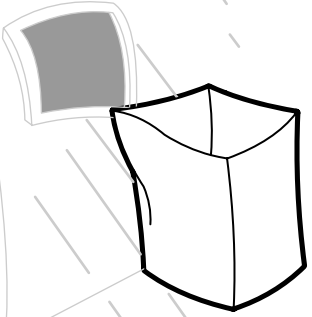


Brick





Plastic coat



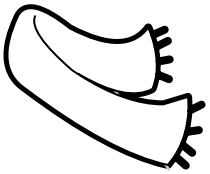
Paper bag

Comic

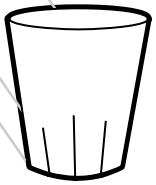
Tissue

Plastic bag

Newspaper



Woollen scarf



Glass

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Splish Splash

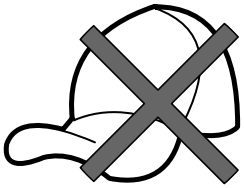
Activity Sheet

EducationCity

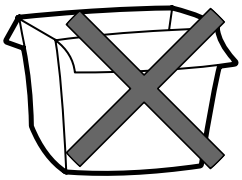
Name: _____ Class: _____

Colour in the waterproof materials.
Draw a cross through the non-waterproof materials.

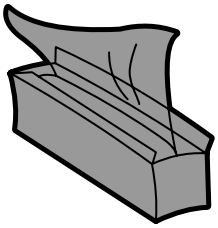
Lunchbox



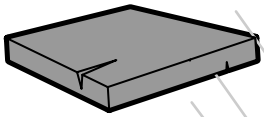
Baseball cap



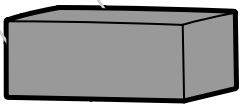
Cardboard box



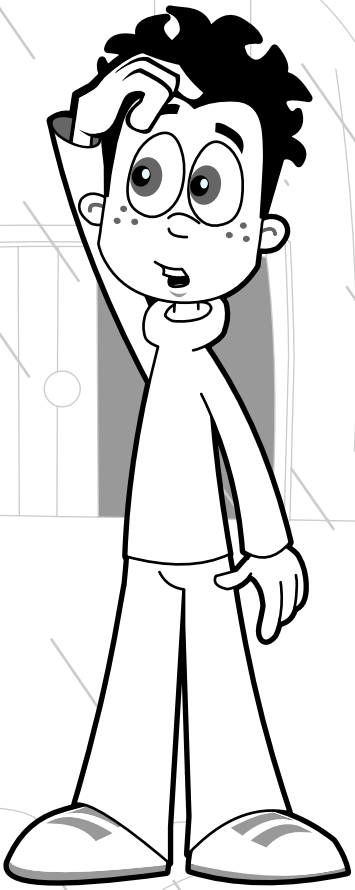
Cling film

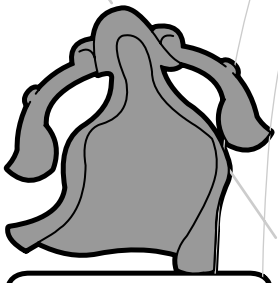


Concrete

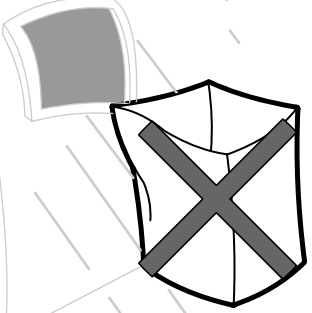


Brick



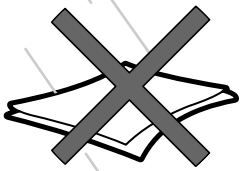


Plastic coat

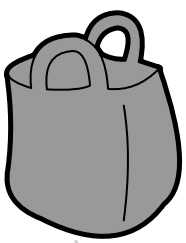


Paper bag

Comic

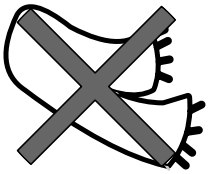


Tissue

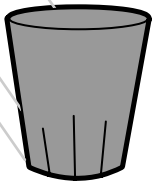


Plastic bag

Newspaper



Woollen scarf



Glass

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Hardware Store

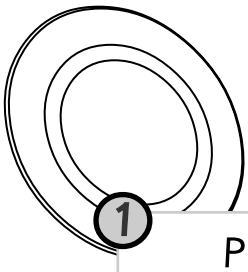
Activity Sheet

EducationCity

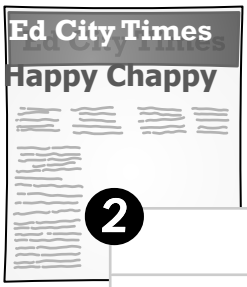
Name: _____ Class: _____

Here is Manu in his hardware store.
Use the words in the boxes below to label the objects correctly.
One has been done for you.

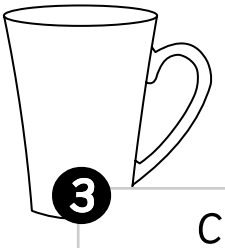
metal | paper | fabric | clay | glass



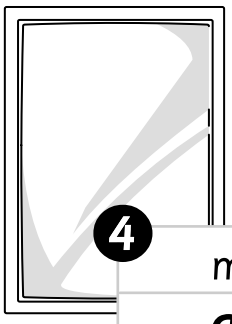
1 Plate
clay



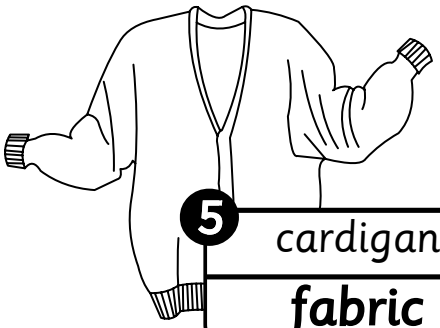
2 **paper**



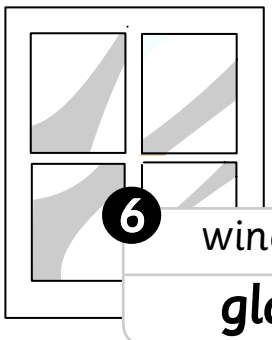
3 Cup
clay



4 mirror
glass

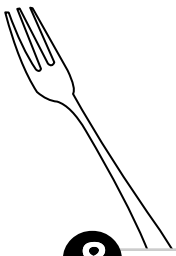


5 cardigan
fabric

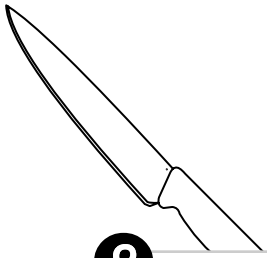


6 window
glass

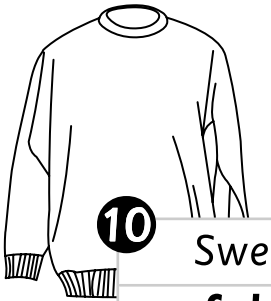
7 Playing cards
paper



8 Fork
metal



9 Knife
metal



10 Sweater
fabric

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Treasure Hunt

Activity Sheet

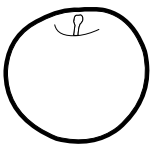
EducationCity

Name: _____ Class: _____

Color in the magnetic materials.
Draw a cross through the non-magnetic materials.

nails

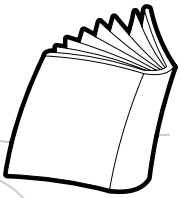
soccer ball

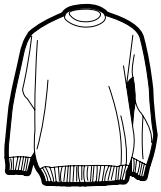

apple

silverware

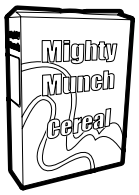
shoe

chair


book

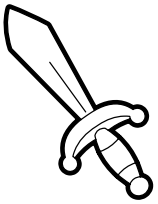

old clothing

anchor



breakfast cereal

horseshoe


sword

Now draw and write the name of three more magnetic objects.

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Bits and Pieces

Activity Sheet

EducationCity

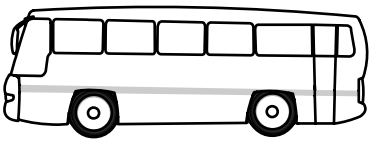
Name: _____ Class: _____

Choose 4 objects in the classroom and draw them below.
How could you sort each one?

Example:

My object is a...

red bus



I could sort this with other...

toys that are red,

have 4 wheels

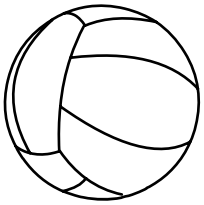
1

My object is a...

I could sort this with other...

2

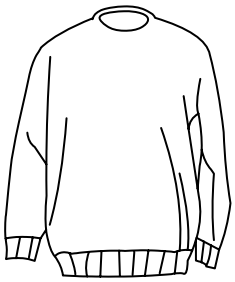
My object is a...



I could sort this with other...

3

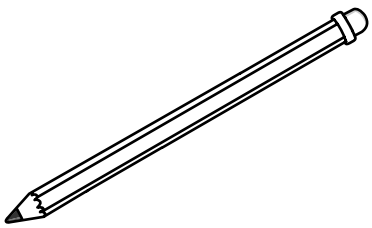
My object is a...



I could sort this with other...

4

My object is a...



I could sort this with other...

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Bits and Pieces

Activity Sheet

EducationCity

Name: _____ Class: _____

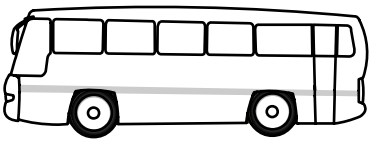
Choose 4 objects in the classroom and draw them below.
How could you sort each one?

Suggested answers

Example:

My object is a...

red bus



I could sort this with other...

toys that are red,

have 4 wheels

1

My object is a...

brown bear

I could sort this with other...

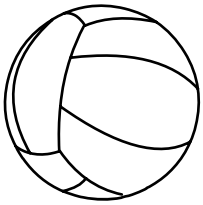
bears,

brown objects

2

My object is a...

red ball



I could sort this with other...

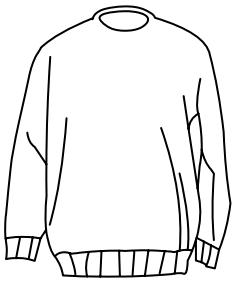
red things,

different balls

3

My object is a...

blue jumper



I could sort this with other...

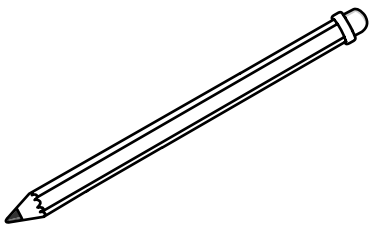
clothes,

blue objects

4

My object is a...

green pencil



I could sort this with other...

pencils,

green objects

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Pick and Mix

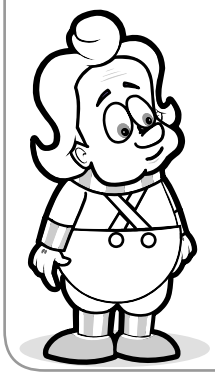
Activity Sheet

EducationCity

Name: _____ Class: _____

Design your own sorting machine in the box below.

1



Look at the criteria below.
Draw some objects that would match the criteria in the boxes.

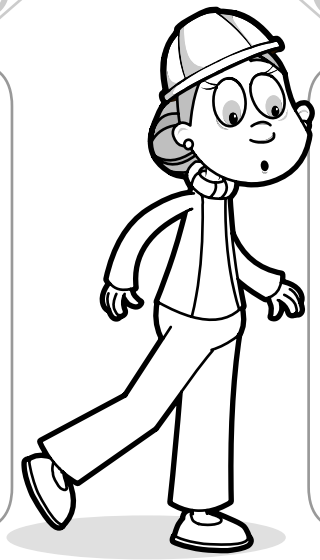
2

Waterproof

Not waterproof

Now think of two criteria of your own and draw some objects that match the criteria.

3



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Pick and Mix

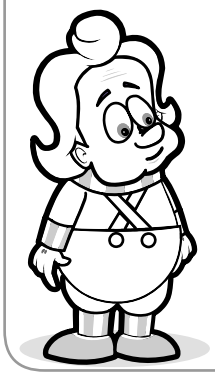
Activity Sheet

EducationCity

Name: _____ Class: _____

Design your own sorting machine in the box below.

1



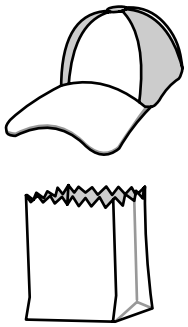
Accept all reasonable responses

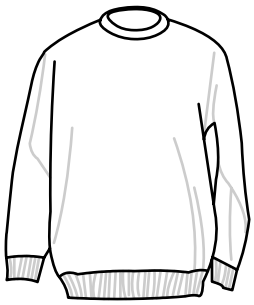
Look at the criteria below.
Draw some objects that would match the criteria in the boxes.

2

Suggested answers

Waterproof

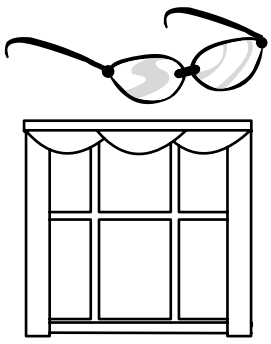


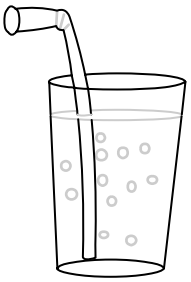


Not waterproof

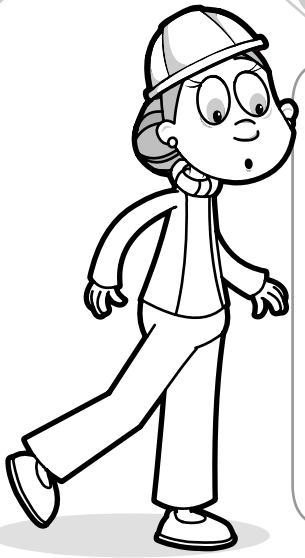
Now think of two criteria of your own and draw some objects that match the criteria.

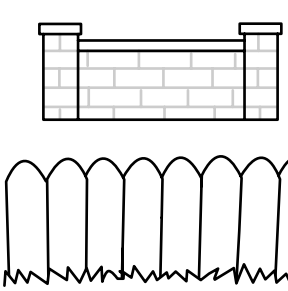
3

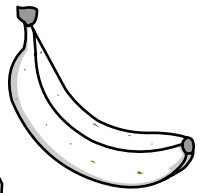




Transparent







Opaque

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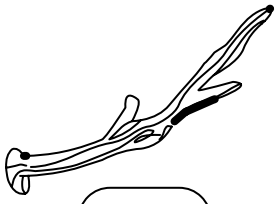
Picnic Stop

Activity Sheet

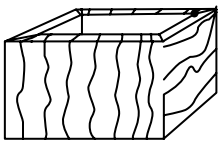
EducationCity

Name: _____ Class: _____

Circle the things that are found naturally.
Draw an X through the things that are manufactured.



twig

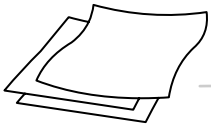


wooden box

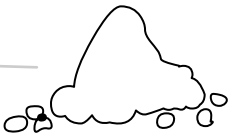
bone

soil

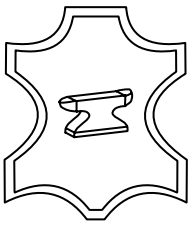
clothes



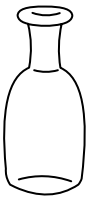
paper



salt



leather



glass bottle

wool

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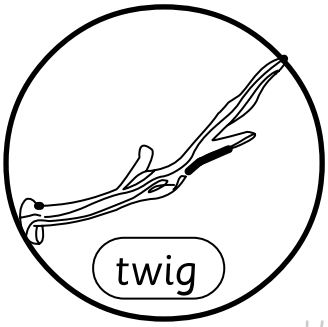
Picnic Stop

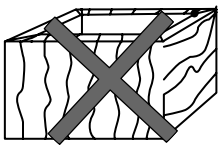
Activity Sheet

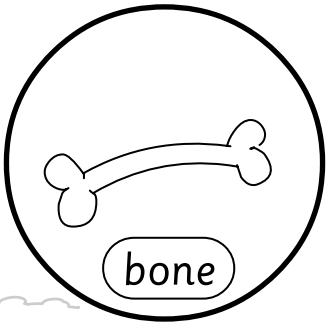
EducationCity

Name: _____ Class: _____

Circle the things that are found naturally.
Draw an X through the things that are manufactured.


twig

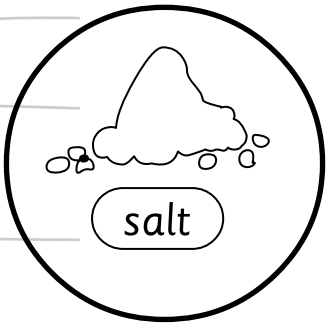

wooden box


bone

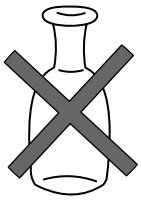
soil

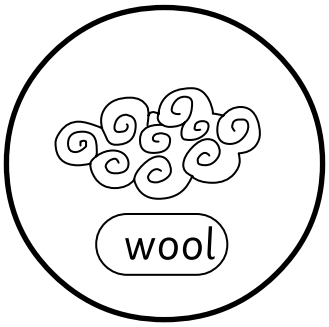
clothes

paper


salt

leather


glass bottle


wool

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Rock and Roll

Activity Sheet

EducationCity

Name: _____ Class: _____

Design your own sorting machine in the box below.
Think about what it would look like and which criteria you would use to sort the objects.

My Sorting Machine

The criteria I would use to sort my objects would be:

1. _____
2. _____

The objects I would choose would be:

1. _____
2. _____

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Rock and Roll

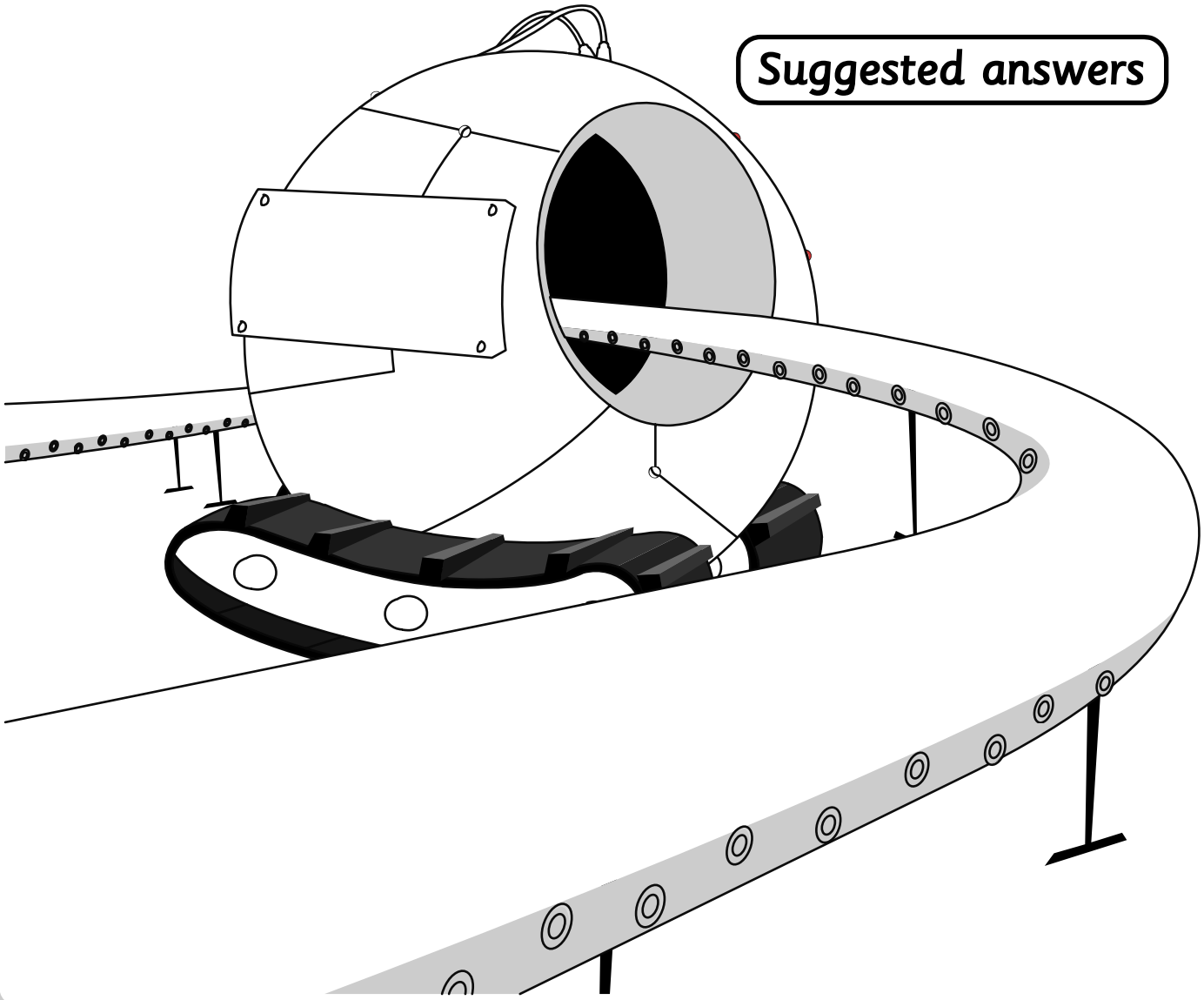
Activity Sheet

EducationCity

Name: _____ Class: _____

Design your own sorting machine in the box below.
Think about what it would look like and which criteria you would use to sort the objects.

My Sorting Machine



Suggested answers

The criteria I would use to sort my objects would be:

1. **Shiny, not shiny**
2. **Metallic, not metallic**

The objects I would choose would be:

1. **Shiny – spoon, mirror. Not shiny – paper, carpet**
2. **Heavy – chair, desk. Not heavy – book, pencil**

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Name : _____ Class: _____

What questions could you ask about it?

Share your ideas with a partner.

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Name : _____ Class: _____

What questions did you think of?

I thought of asking:

- Is it natural or man-made?
- Is it rough or smooth?
- Is it hard or soft?
- Is it bendy or not bendy?

Did you know that iron and steel are made from a natural material called iron ore?

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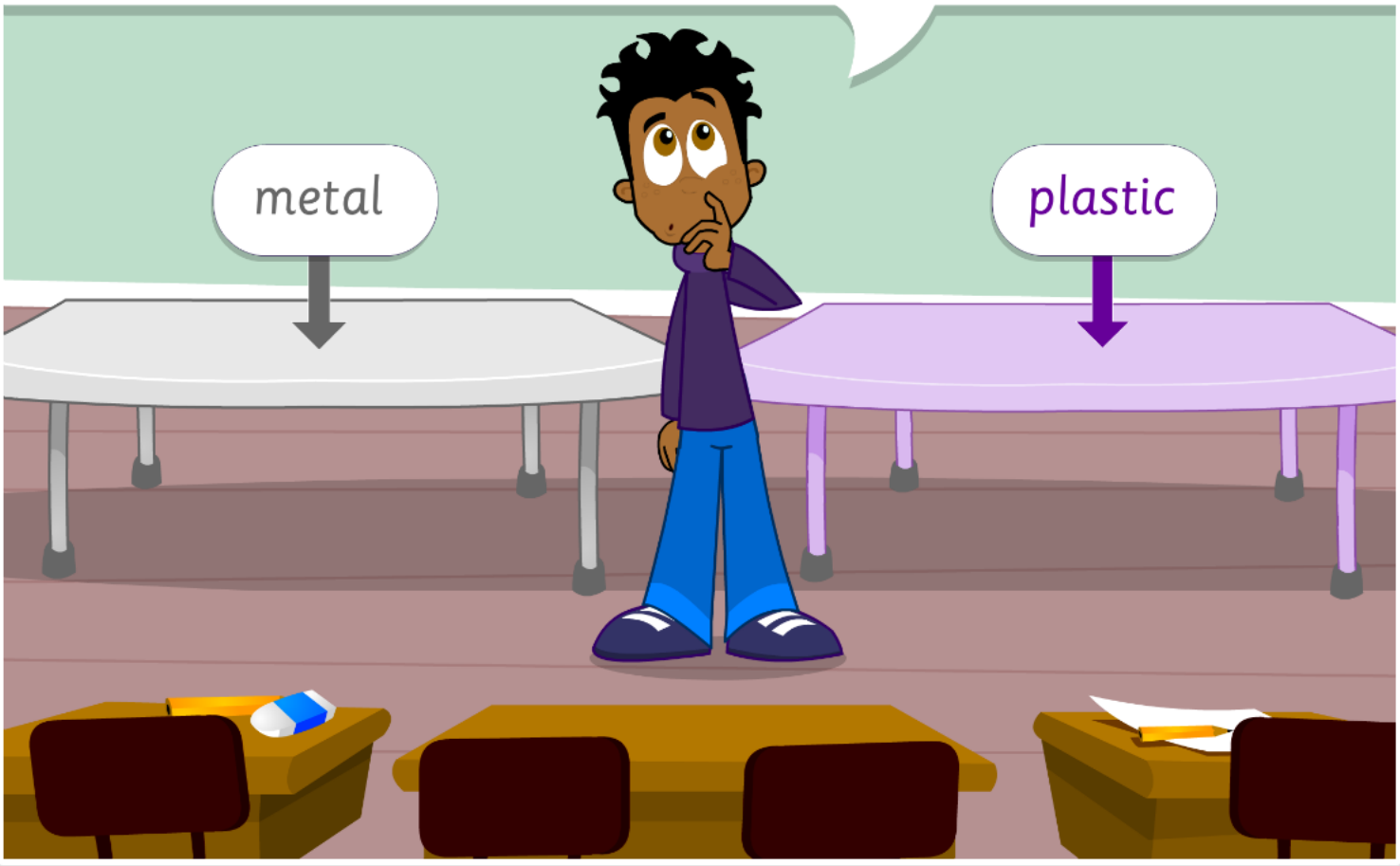
Name : _____ Class: _____

In what ways are plastic and metal the same?



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Name : _____ Class: _____

I thought that:

They are both strong.

They are both are long-lasting.

They can both be used to make things.

Sometimes they can be recycled.

Did you come up with any others?

Did you know that plastic is waterproof?

Some metals start to rust when they are wet.

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Granny's House

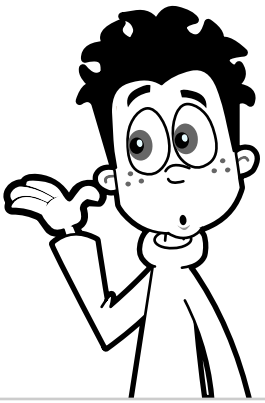
Activity Sheet

EducationCity

Name: _____ Class: _____

Use the words below to show the correct properties for each of the materials.
One has been done for you.

light | thin | ~~thin~~ | bendy | smooth | thin | non-slip | waterproof | a conductor of electricity | bendy | ~~flat~~ | hardwearing | not a conductor of electricity | bendy | suitable to make wire | stiff | non-rip | ~~light~~ | light

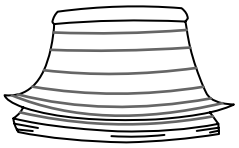


1 Manu used **paper** for Granny's **notebook** because paper is:

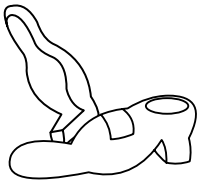
thin

light

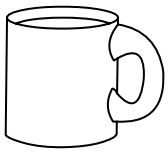
flat



2 Manu used **rubber** for the **soles** of Granny's **shoes** because rubber is:

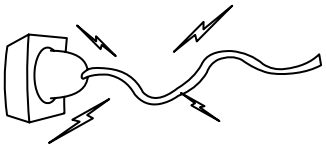


3 Manu used **porcelain** for Granny's **cup** because porcelain is:



4 Manu used **fabric** for Granny's **curtains** because fabric is:

5 Manu used **copper** for the inside of Granny's **TV cable** because copper is:



6 Manu used **rubber** for the outside of Granny's **TV cable** because rubber is:

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Granny's House

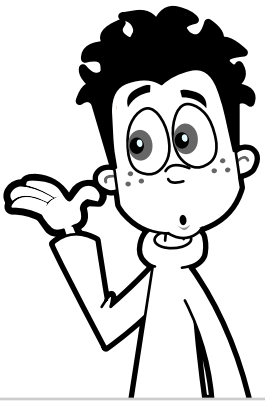
Activity Sheet

EducationCity

Name: _____ Class: _____

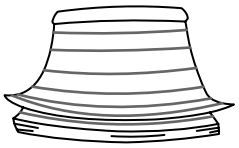
Use the words below to show the correct properties for each of the materials.
One has been done for you.

light | thin | ~~thin~~ | bendy | smooth | thin | non-slip | waterproof | a conductor of electricity | bendy | ~~flat~~ | hardwearing | not a conductor of electricity | bendy | suitable to make wire | stiff | non-rip | ~~light~~ | light



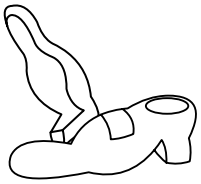
1 Manu used **paper** for Granny's **notebook** because paper is:

thin
light
flat



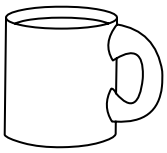
2 Manu used **rubber** for the **soles** of Granny's **shoes** because rubber is:

non-slip
hardwearing
bendy



3 Manu used **porcelain** for Granny's **cup** because porcelain is:

waterproof
light
stiff
smooth

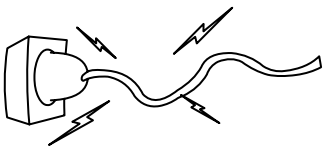


4 Manu used **fabric** for Granny's **curtains** because fabric is:

non-rip
thin
bendy

5 Manu used **copper** for the inside of Granny's **TV cable** because copper is:

a conductor of electricity
suitable to make wire



6 Manu used **rubber** for the outside of Granny's **TV cable** because rubber is:

not a conductor of electricity
thin
light
bendy

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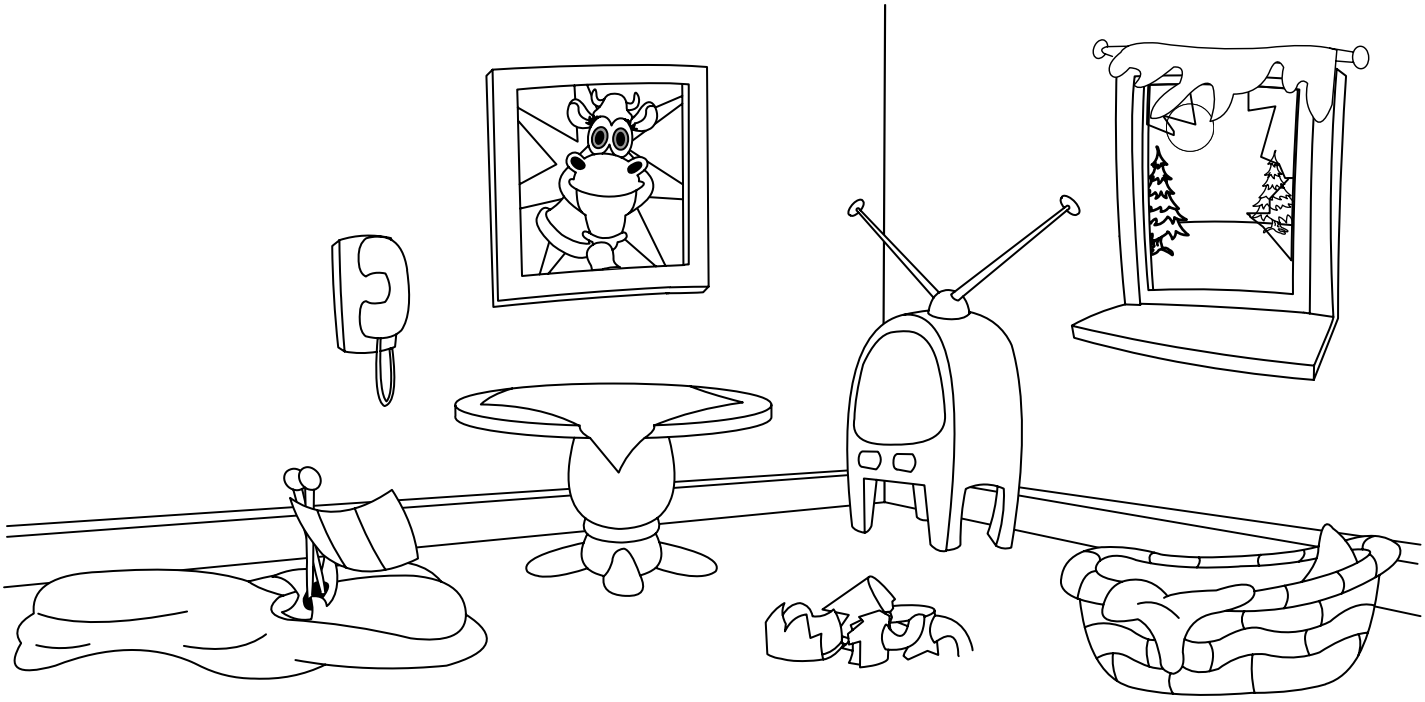
Granny's House

Activity Sheet

EducationCity

Name: _____ Class: _____

Draw a circle around the three broken things in Granny's house.



Now draw a circle around the materials that Manu used to repair each thing.

Window

wood plastic glass brick rubber

Door

paper cardboard plastic iron wood

Cup

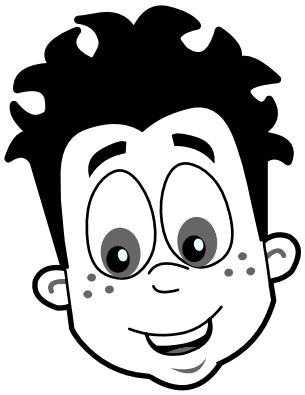
paper porcelain brick iron wood

Chair frame

iron paper wood ice glass

Chair upholstery

wool wood paper tiles



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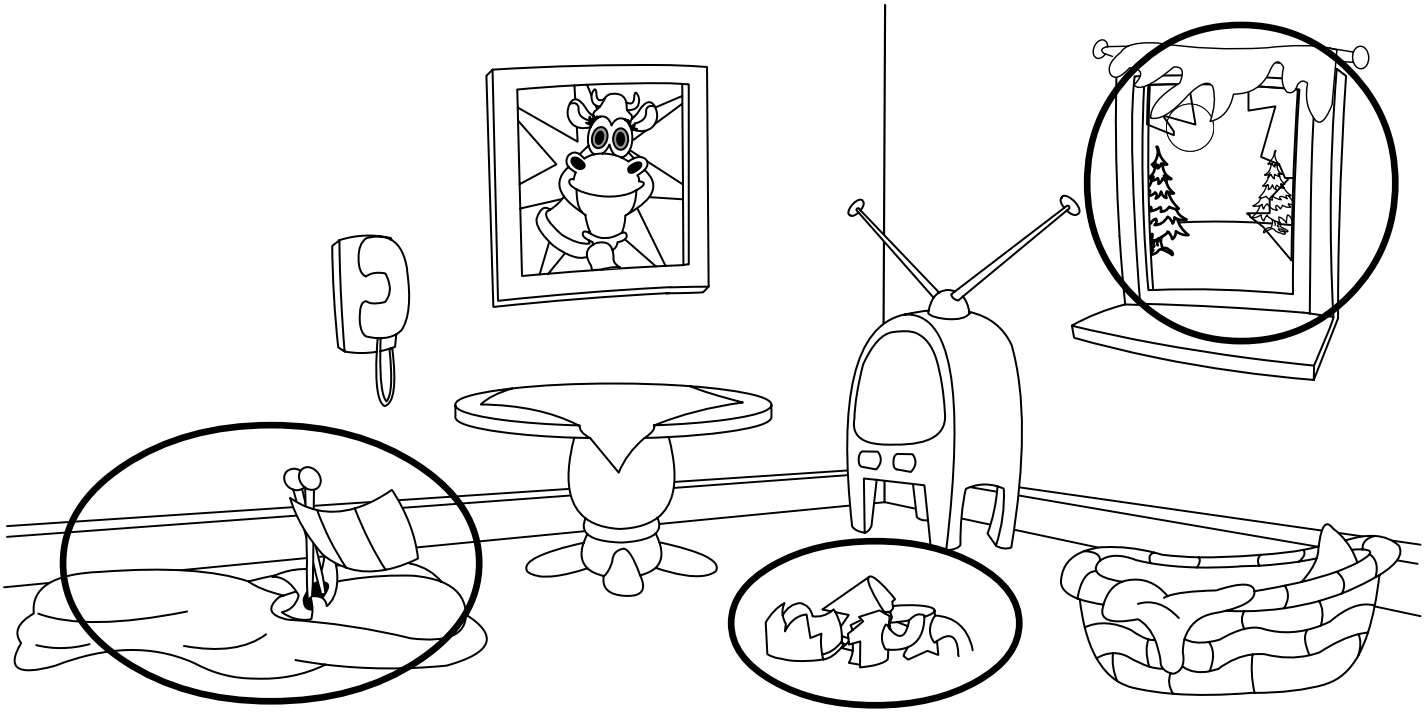
Granny's House

Activity Sheet

EducationCity

Name: _____ Class: _____

Draw a circle around the three broken things in Granny's house.



Now draw a circle around the materials that Manu used to repair each thing.

Window

wood plastic **glass** brick rubber

Door

paper cardboard plastic iron **wood**

Cup

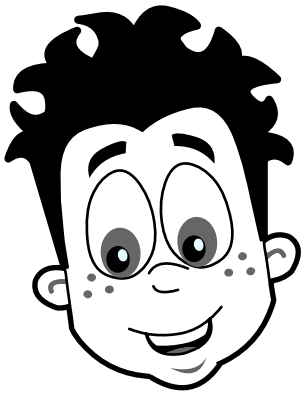
paper **porcelain** brick iron wood

Chair frame

iron paper **wood** ice glass

Chair upholstery

wool wood paper tiles



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Hardware Store

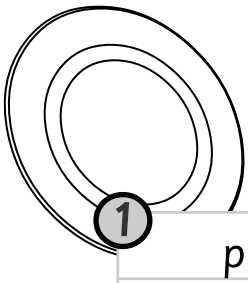
Activity Sheet

EducationCity

Name: _____ Class: _____

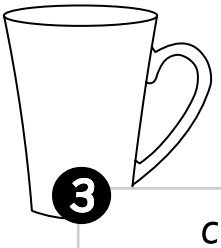
Here is Manu in his hardware store.
Use the words in the boxes below to label the objects correctly.
One has been done for you.

metal | paper | fabric | clay | glass

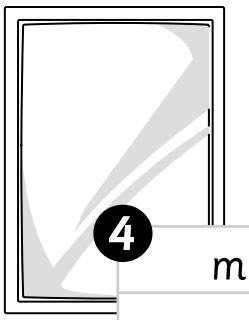


1 plate
clay

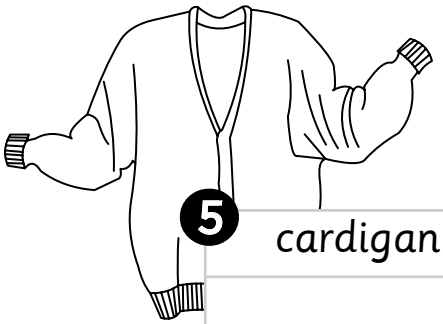
2 newspaper



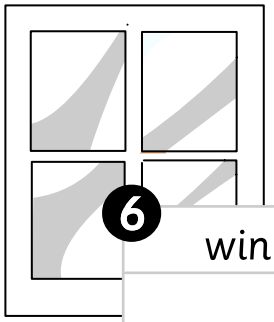
3 cup



4 mirror

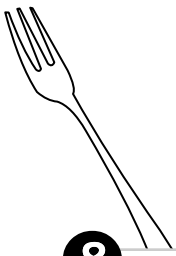


5 cardigan

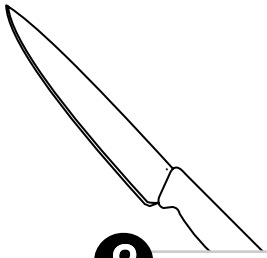


6 window

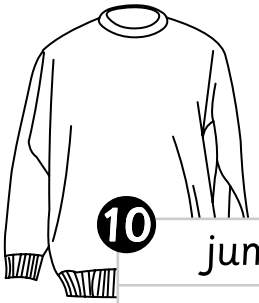
7 playing cards



8 fork



9 knife



10 jumper

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Hardware Store

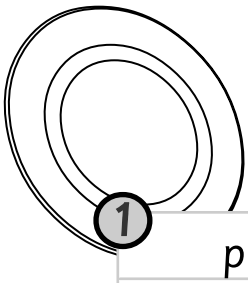
Activity Sheet

EducationCity

Name: _____ Class: _____

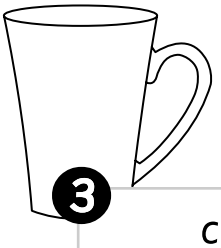
Here is Manu in his hardware store.
Use the words in the boxes below to label the objects correctly.
One has been done for you.

metal | paper | fabric | clay | glass

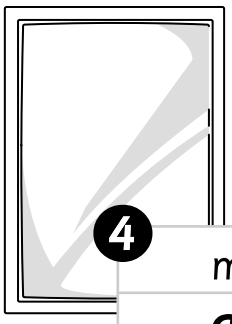


1 plate
clay

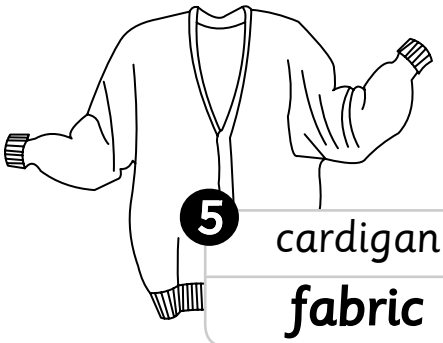
2 newspaper
paper



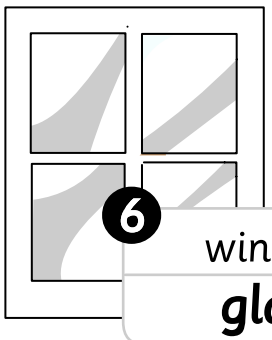
3 cup
clay



4 mirror
glass

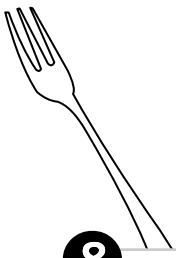


5 cardigan
fabric

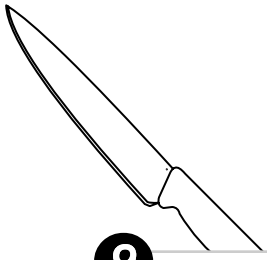


6 window
glass

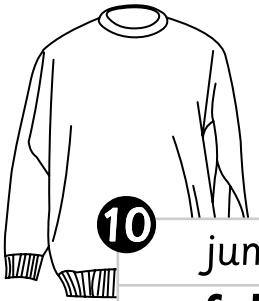
7 playing cards
paper



8 fork
metal



9 knife
metal



10 jumper
fabric

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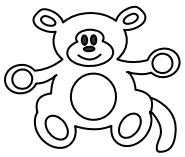
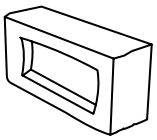
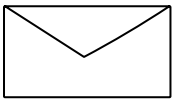
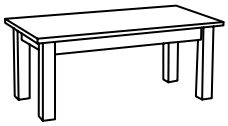
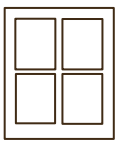
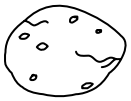
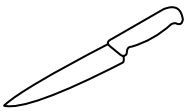
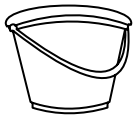
Junkyard

Activity Sheet

EducationCity

Name: _____ Class: _____

There are three properties next to each item below. Draw a circle around the correct property for the item. One has been done for you.

1	raincoat	**waterproof** / permeable / rigid
2	cuddly toy 	magnetic / soft / transparent
3	brick 	soft / flexible / opaque
4	paper envelope 	waterproof / flexible / hard
5	wooden table 	soft / magnetic / rigid
6	window 	transparent / opaque / permeable
7	stone 	soft / flexible / hard
8	steel knife 	non-magnetic / magnetic / soft
9	plastic bucket 	magnetic / permeable / non-magnetic
10	woolly jumper	permeable / waterproof / magnetic
11	rubber duck	magnetic / permeable / waterproof

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Junkyard

Activity Sheet

EducationCity

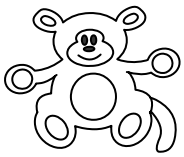
Name: _____ Class: _____

There are three properties next to each item below. Draw a circle around the correct property for the item. One has been done for you.

1 raincoat

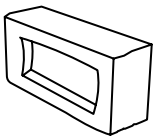
waterproof
permeable
rigid

2 cuddly toy



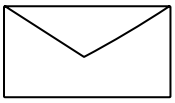
magnetic
soft
transparent

3 brick



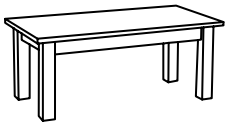
soft
flexible
opaque

4 paper envelope



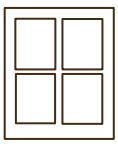
waterproof
flexible
hard

5 wooden table



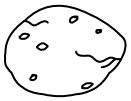
soft
magnetic
rigid

6 window



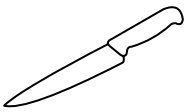
transparent
opaque
permeable

7 stone



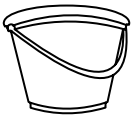
soft
flexible
hard

8 steel knife



non-magnetic
magnetic
soft

9 plastic bucket



magnetic
permeable
non-magnetic

10 woolly jumper

permeable
waterproof
magnetic

11 rubber duck

magnetic
permeable
waterproof

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Mine for Diamonds

Activity Sheet

EducationCity

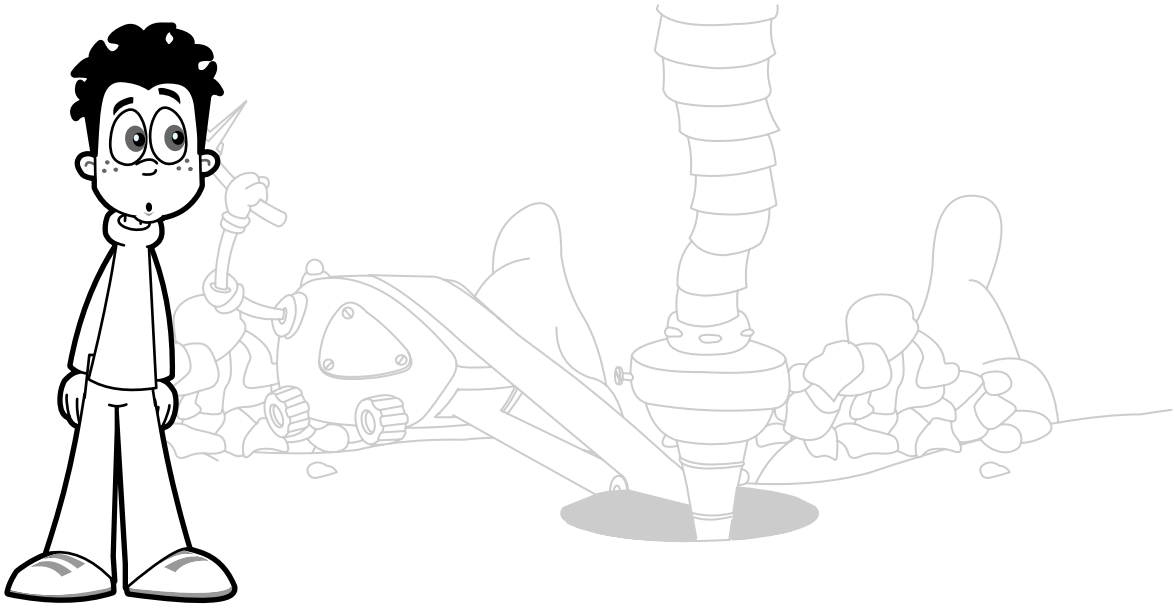
Name: _____ Class: _____

Connect the rocks to their uses by completing the sentences below. One has been done for you.

Sandstone | Marble | Clay | Diamonds | ~~Limestone~~

Granite | Flint | Coal | Slate | Pumice

1. **Limestone** is used for making cement.
2. _____ is used for making arrowheads.
3. _____ is used as a fuel.
4. _____ is used for decoration.
5. _____ is used for roofing.
6. _____ is used for jewelry.
7. _____ is used to make countertops.
8. _____ is used for carving ornaments.
9. _____ is used for making bricks.
10. _____ is used for rubbing off rough skin.



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Mine for Diamonds

Activity Sheet

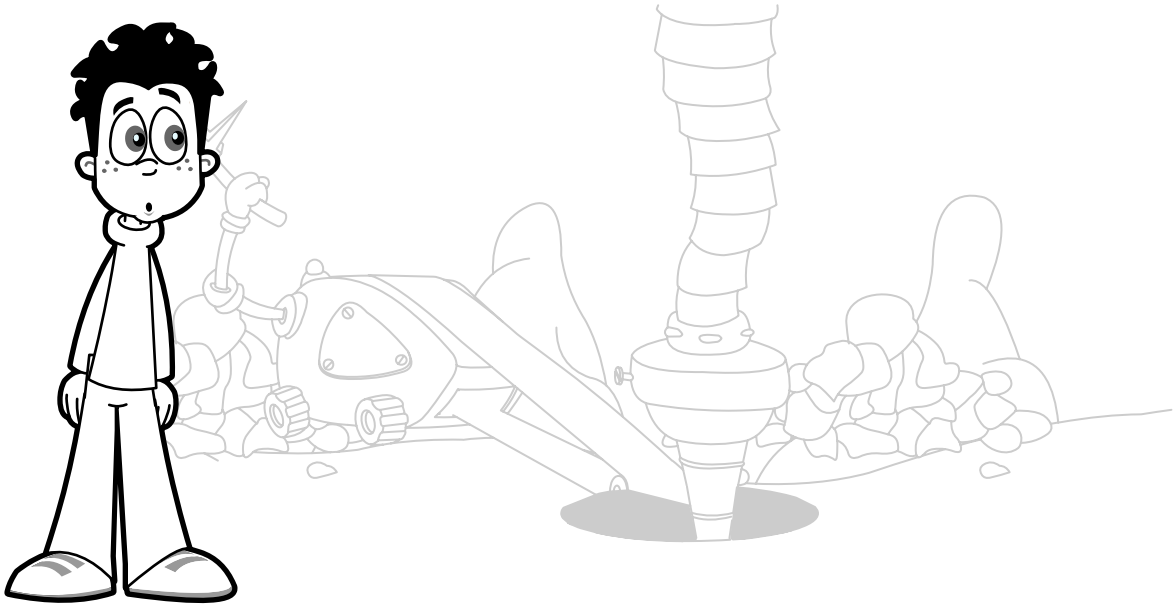
EducationCity

Name: _____ Class: _____

Connect the rocks to their uses by completing the sentences below. One has been done for you.

Sandstone	Marble	Clay	Diamonds	~~Limestone~~
Granite	Flint	Coal	Slate	Pumice

1. **Limestone** is used for making cement.
2. **Flint** is used for making arrowheads.
3. **Coal** is used as a fuel.
4. **Marble** is used for decoration.
5. **Slate** is used for roofing.
6. **Diamonds** is used for jewelry.
7. **Granite** is used to make countertops.
8. **Sandstone** is used for carving ornaments.
9. **Clay** is used for making bricks.
10. **Pumice** is used for rubbing off rough skin.



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Will it Bend?

Activity Sheet

EducationCity

Name: _____ Class: _____

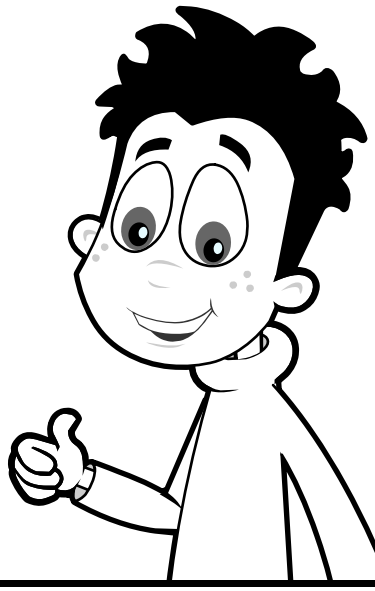
Using the tables and cut-outs provided (see Resource Sheets), sort the objects into the tables. Then, look at the tables and use them to help you answer the following questions.

1. What differences are there between the objects that bend easily and the objects that do not bend easily?

2. What differences are there between the objects that twist easily and the objects that do not twist easily?

3. Can you describe any similarities between the two tables?

4. Is there anything interesting about some of the objects?



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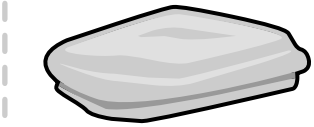
Will it Bend?

Resource Sheet

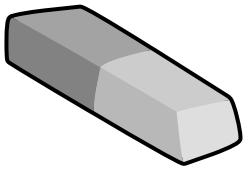
EducationCity

Name: _____ Class: _____

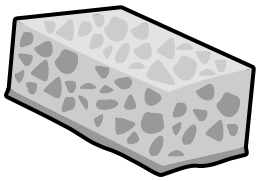


A stone

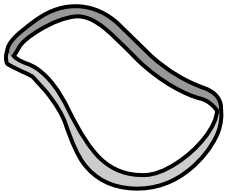
Modelling clay



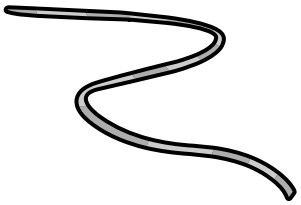
Eraser



Sponge

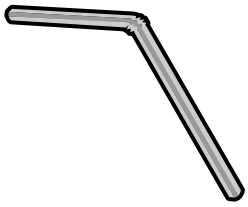


Elastic band

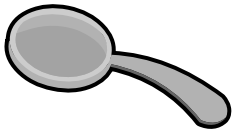


String

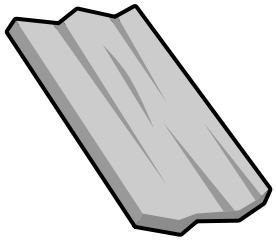
Ball



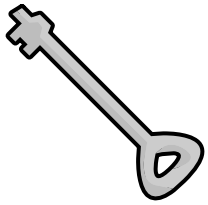
Plastic straw



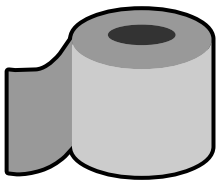
Metal spoon



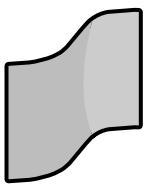
Block of wood



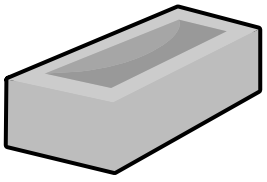
A key



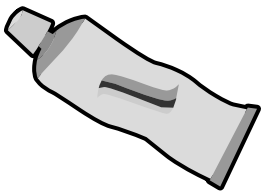
A toilet roll



A sheet of toilet roll



A brick



A tube of toothpaste

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Will it Bend?

Resource Sheet

Name: _____ Class: _____

objects that will bend easily	objects that will not bend easily

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Will it Bend?

Resource Sheet

EducationCity®

Name: _____ Class: _____

objects that will twist easily	objects that will not twist easily

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Will it Bend?

Activity Sheet

EducationCity

Name: _____ Class: _____

Using the tables and cut-outs provided (see Resource Sheets), sort the objects into the tables. Then, look at the tables and use them to help you answer the following questions.

1 What differences are there between the objects that bend easily and the objects that do not bend easily?

- **Some of those that bend are flatter or thinner. Those that can't be bent are thicker.**
- **Some of those that bend are softer. Those that can't bend are hard.**
- **Some of those that bend can be squashed. Those that can't be bent, can't be squashed.**

2 What differences are there between the objects that twist easily and the objects that do not twist easily?

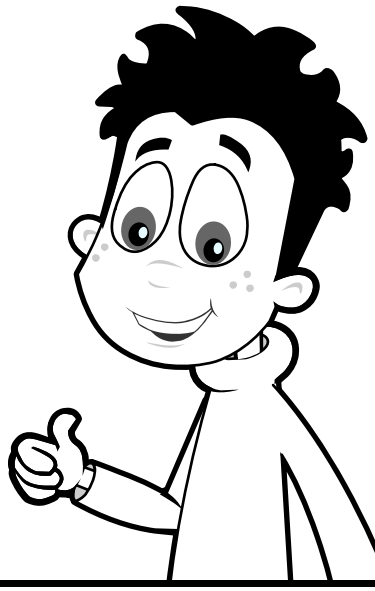
- **Some of the objects that twist are flatter or thinner. Those objects that can't be twisted are thicker objects.**
- **Some of the objects that twist are softer. Those that can't be twisted are hard.**
- **Some of the objects that twist can be squashed. Those that can't be twisted, can't be squashed.**

3 Can you describe any similarities between the two tables?

- **Nearly all of the objects that can be bent can also be twisted.**
- **The objects that can be bent have similar properties to those that can be twisted.**

4 Is there anything interesting about some of the objects?

- **A plastic straw can bend easily, but can't twist easily as it bends before it twists. It can only be made into a twisted shape by bending it several times.**
- **Toilet paper acts differently when it is made into a roll. It becomes harder to bend and twist.**



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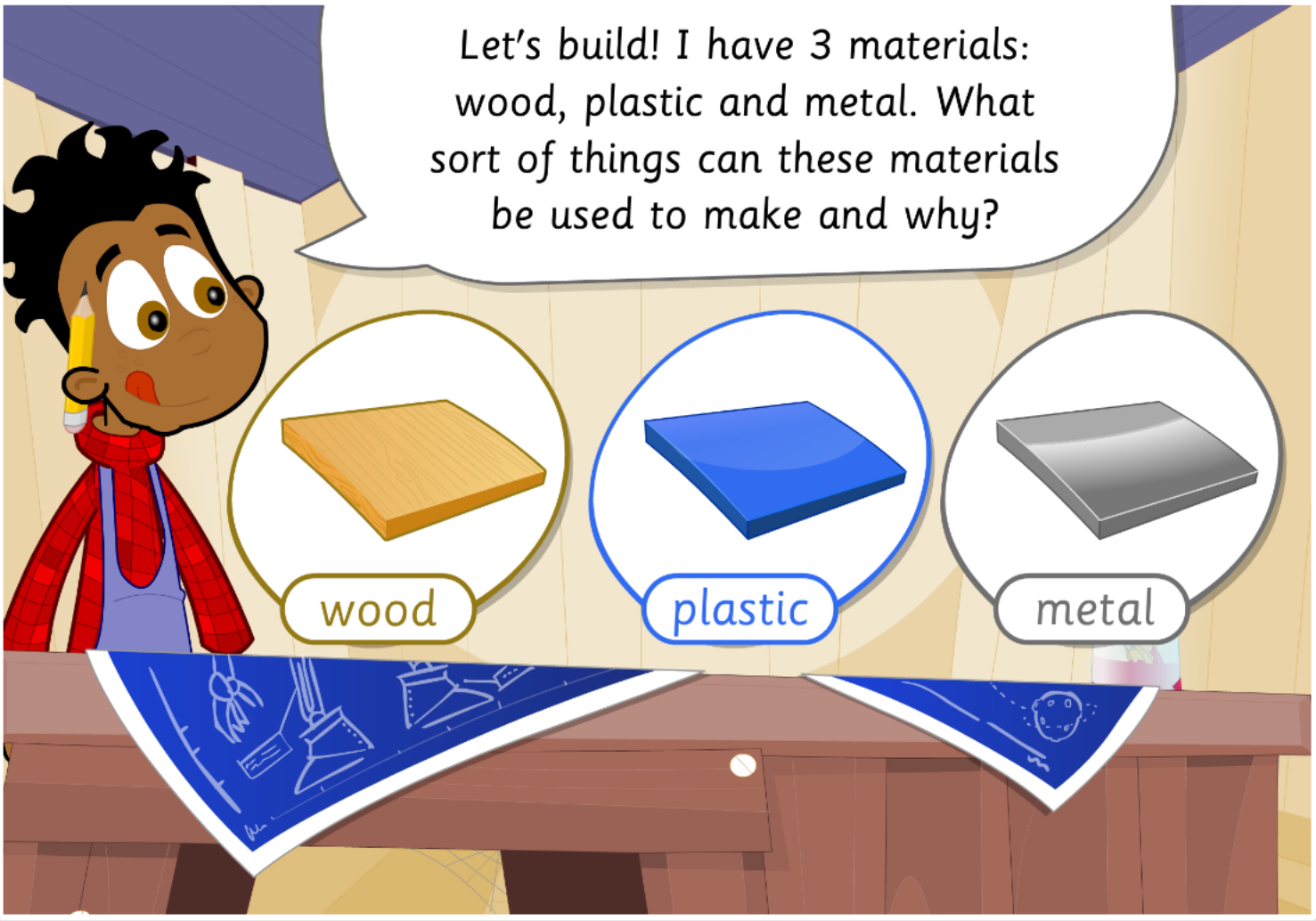
Name : _____ Class: _____



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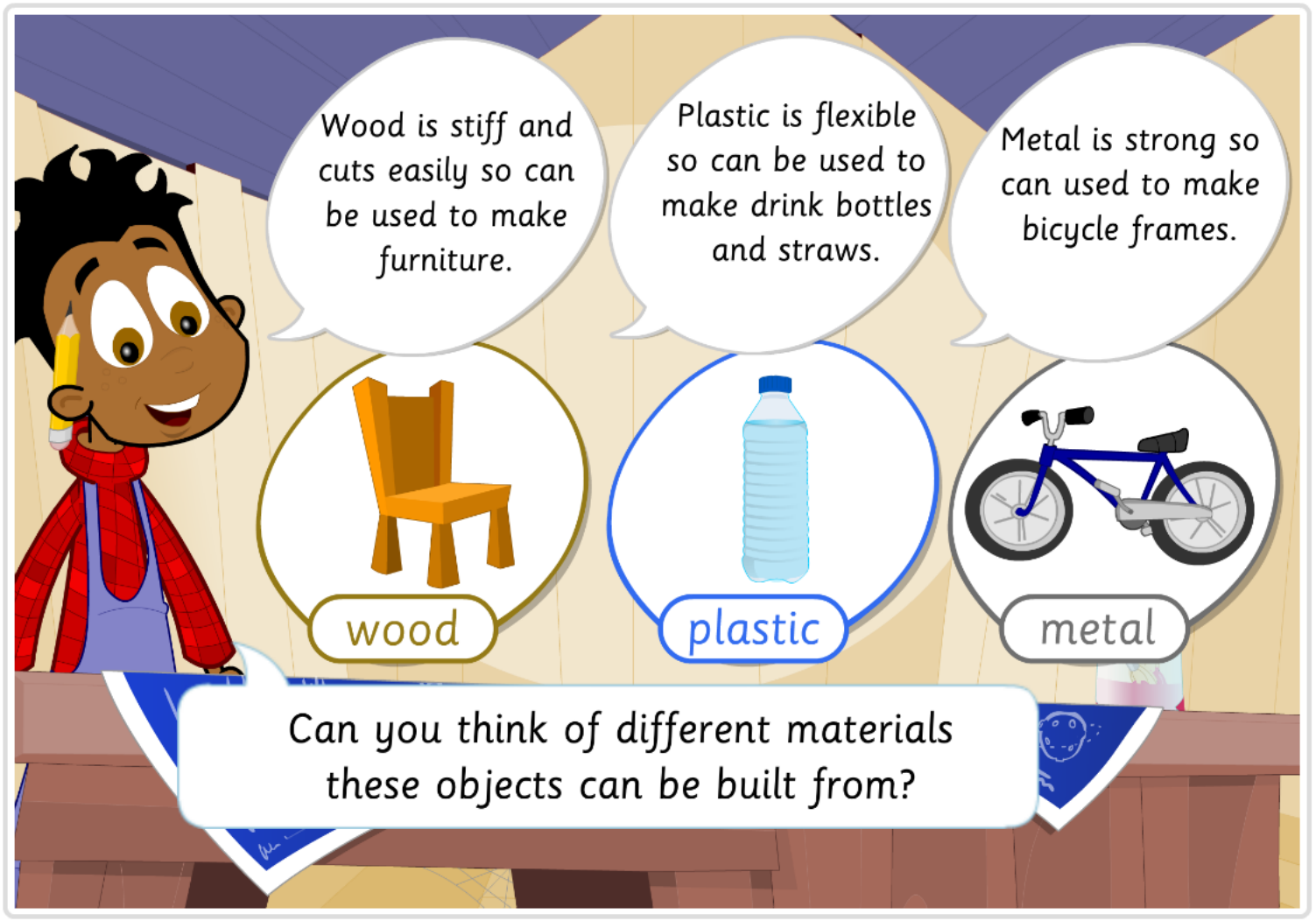
Name : _____ Class: _____



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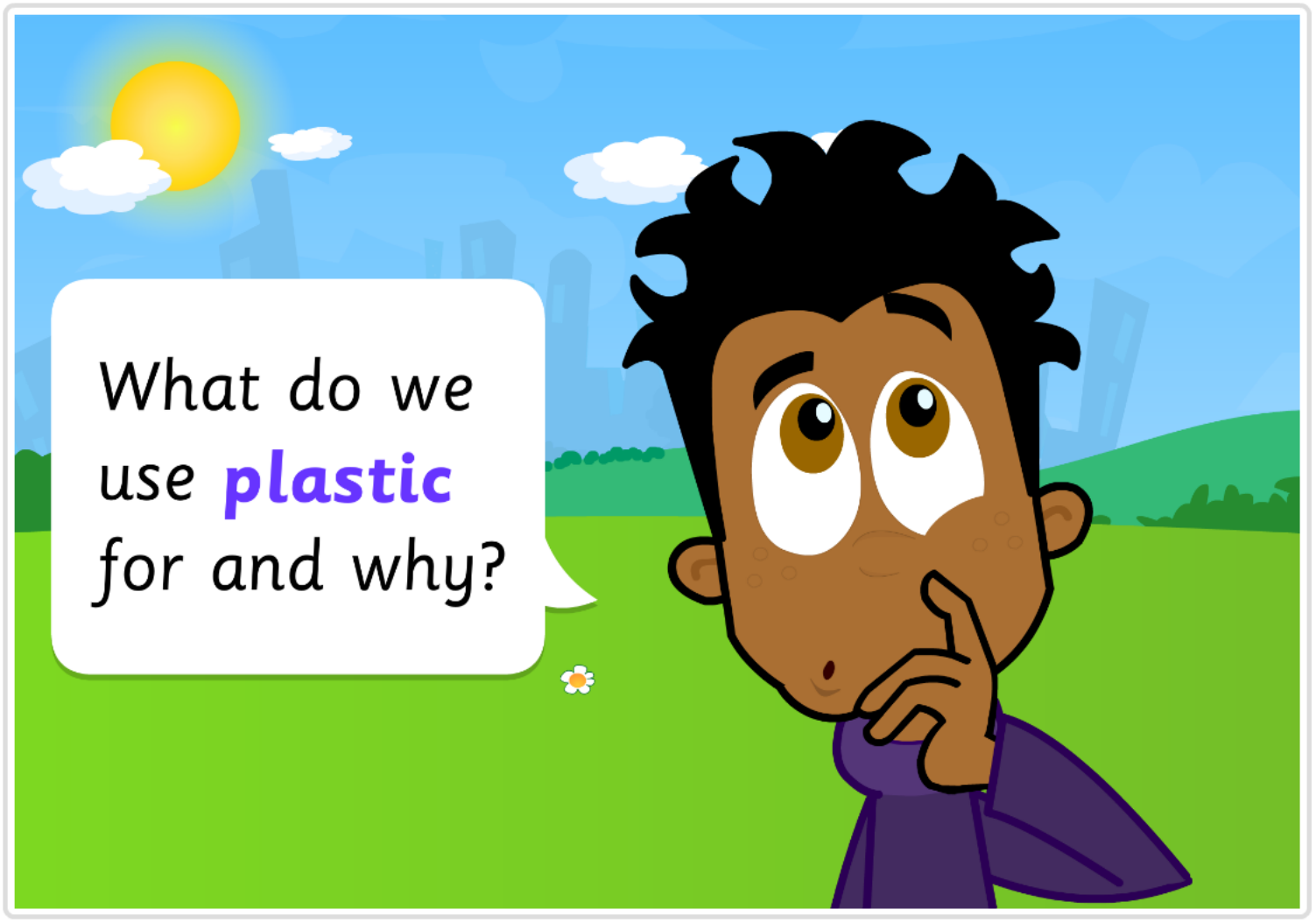
Name : _____ Class: _____



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Name : _____ Class: _____

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Comprehensive and clearly organised by strand, content is so easy to access!

Plan in Advance

When planning your lessons, choose your Activities in advance and put them into a MyCity so they're easy for students to access. Choose a meaningful name for each MyCity and you'll be able to update and retrieve them year after year!

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Mark Sanderson,
Senior ICT Consultant, Herefordshire Learning and Achievement Service

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