SCIENCE

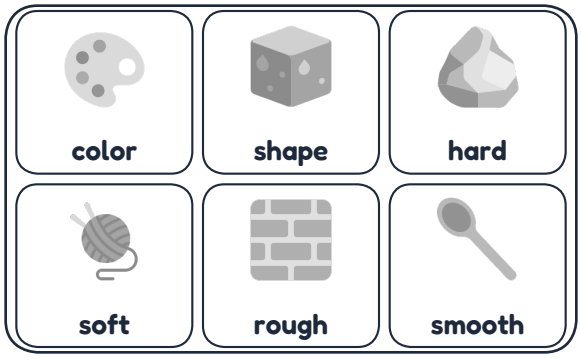
Properties of matter

Name _____ Date _____

I can describe objects by their properties.

1 How it works

A property is something you can observe about an object. You can describe its color, shape and size. You can feel if it is hard or soft, rough or smooth, heavy or light. You can test if it bends or if it floats. Scientists use properties to sort things and to choose the best material for a job.



2 Describe it: circle 2 words

hard or soft, heavy or light



scarf

hard soft heavy light



spoon

hard soft heavy light



rock

hard soft heavy light



brick

hard soft heavy light



chair

hard soft heavy light



feather

hard soft heavy light

How did I do? ☆ ☆ ☆

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The best material

Name _____ Date _____

I can match materials to the jobs they do best.

1 Draw a line from each thing to its best material

 a window	glass, because you can see through it
 a raincoat	wood, because it is hard and strong
 a pillow	metal, because it can get hot
 a cooking pot	plastic, because water runs off it
 a strong chair	cotton, because it is soft

2 Does it bend? Circle one.

 a sock	bends	does not bend
 a rock	bends	does not bend
 a sheet of paper	bends	does not bend
 a brick	bends	does not bend

How did I do? ☆ ☆ ☆

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Think like a scientist

Name _____ Date _____

I can explain how properties help us choose materials.

1 Think about it

1. Why is a window made of glass? _____
2. Why is a pot made of metal? _____
3. How are a ball and an orange alike? _____
4. Pick an object. Give 3 properties. _____

2 True or false? Circle it.

1. A pillow should be made of metal.	true	false
2. Glass is good for a window.	true	false
3. A rock is hard.	true	false
4. We can sort objects by their properties.	true	false
5. A feather is heavy.	true	false

3 Draw an object. Write 3 words about its properties.

How did I do? ☆ ☆ ☆

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Try it: the mystery bag

Name _____ Date _____

I can name objects by feeling their properties.

1 You need

- a bag or a box
- 6 small objects
- a scarf for a blindfold
- a partner
- a pencil

2 What to do

1. A partner hides 6 small objects in the bag, like a spoon, a sponge, a coin and a block.
2. Reach in without looking. Feel one object.
3. Say 2 properties: is it hard or soft? Rough or smooth? What shape?
4. Guess the object, then pull it out to check.

3 I predict

Which object will be easiest to guess by touch?

_____

_____

4 What I see

Object	Properties I felt	My guess
1		
2		
3		

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: properties of matter

1 Page 1

Properties: 1) scarf: soft, light; 2) spoon: hard, light; 3) rock: hard, heavy; 4) brick: hard, heavy; 5) chair: hard, heavy; 6) feather: soft, light.

2 Page 2

Materials: 1) a window: glass, because you can see through it; 2) a raincoat: plastic, because water runs off it; 3) a pillow: cotton, because it is soft; 4) a cooking pot: metal, because it can get hot; 5) a strong chair: wood, because it is hard and strong.

Bends: 1) a sock: bends; 2) a rock: does not bend; 3) a sheet of paper: bends; 4) a brick: does not bend.

3 Page 3

Think: 1) You can see through it; 2) It can get hot without burning; 3) Both are round; 4) Answers will vary.

True or false: 1) false; 2) true; 3) true; 4) true; 5) false.

Drawing: answers will vary, with 3 property words such as red, hard and smooth.

4 Page 4: Try it!

Answers will vary. Objects with a special shape or texture, like a spoon or a sponge, are the easiest to guess by touch. Smooth, round things are harder. Touch tells us properties like hard, soft, rough, smooth and shape, but not color, which needs our eyes.

5 Teaching tip

Run a property hunt: give each child a word card (hard, soft, rough, smooth or bendy) and five minutes to find something in the room that matches it.

Safety: put no sharp or breakable objects in the bag.

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