

# Y2 Changing Shape of Materials

KS1 Y2 Science · Follows the national curriculum

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## 1. Worked example

**Name the 4 ways we can push or pull a solid object to change its shape.**

Step 1 · Press it flat between your hands

Squash

Step 2 · Make it curve

Bend

Step 3 · Turn the ends opposite ways

Twist

Step 4 · Pull the ends apart

Stretch

**Answer: Squashing, bending, twisting and stretching**

Check: Each one is a push or a pull on the object.

## 2. Now try one with the steps

**What happens when you stretch an elastic band and let go?**

Step 1 · While you pull

Step 2 · When you let go

**Answer:**

## 3. Practice

Have a go at each one. There is space underneath to work it out.

**1.** Name a material you can squash into a new shape.

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**2.** What happens to a sponge after you squash it and let go?

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**3.** Can you squash a pebble with your hands?

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4. Name something that stretches and springs back.  

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5. What do we call it when you turn the two ends of an object in opposite directions?  

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6. What happens to a sheet of paper if you try to stretch it?  

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7. Name an object you can bend that stays bent.  

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8. Is squashing a push or a pull?  

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9. Is stretching a push or a pull?  

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10. Why are hair bobbles made of stretchy material?  

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11. An elastic band was 8 cm long. It stretched to 15 cm. How much did it stretch?  

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12. Why is modelling clay good for making models but not for making a bouncy ball?  

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13. Why are car tyres made of rubber and not wood?  

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14. How could you make a fair test to find out which elastic band stretches the most?  

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#### 4. Before you hand it in

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**Thinking every material can be squashed, bent, twisted and stretched.**

Test each material — predict first, then try.

**Thinking 'bendy' and 'stretchy' mean the same thing.**

Bend = make it curve. Stretch = make it longer by pulling.

**Thinking everything that changes shape stays changed.**

Watch what happens AFTER you let go.

**Thinking an object has to be soft to change shape.**

Hard objects can bend too; soft does not always mean squashy.