

KS1 Science Quiz - Forces - Changing Shape (Questions)

This quiz addresses the requirements of the National Curriculum KS1 Science for children aged 5 and 6 in years 1 and 2. Specifically this quiz is aimed at the section dealing with forces and how they change the shape of materials.

What happens when you apply force to an object? You already know that some materials can change shape but bounce back again - springs, rubber bands and balloons. But other materials stay in their new shape. If you push or pull on dough or modelling clay and change its shape, what happens? It stays in the new shape. You can use force to mould dough and clay. It is good fun. It is also good science.

1. Susan makes pottery. She mixes clay and water. She _____ the clay on a potter's wheel.



- Draws
- Paints
- Shapes
- Drags

2. The picture is of a blacksmith making a horse-shoe. The blacksmith makes the horse-shoe from steel.

It is very difficult to change the shape of the steel. The blacksmith has to heat the steel so it is red hot and then hit it with a hammer. This is because steel is a ____ material.



- Weak
- Hard
- Soft
- Bendy

3. Alice is rolling pastry. When Alice has rolled the pastry, the pastry is _____.



- Heavier
- Thicker
- Colder
- Thinner

4. These puppets are made from modelling clay. This shows that modelling clay can be _____.



- Melted
- Burned
- Shaped
- Stirred

5. The man is squashing an empty drinks can. The can changes shape. The can:



- Will go back to its original shape
- Will stay in its new shape
- Will rebound like a rubber ball
- Will spring back like a rubber band

6. Mike pulls on a rubber band. It stretches and gets longer. What happens when Mike stops pulling?



- The rubber band goes back to its original shape
- The rubber band stays longer
- The rubber band gets even longer
- The rubber band changes colour

7. Beatrice sits down on a bean bag. The bean bag:



- Changes shape
- Stays the same shape
- Gets much bigger
- Gets much smaller

8. This man is making bread. He is working the dough. He pushes and pulls the dough. Every time he does this the dough:



- Changes shape
- Changes colour
- Bounces back to its original shape
- Gets heavier

9. Thin metal can change shape if you push hard enough.

This car has had a bump. Another car bumped into it. The car has a dent. It has changed _____.



- Colour
- Shape
- Size
- Weight

10. Ben pushes down on the play dough. What happens?



- The play dough changes shape
- The play dough melts
- The play dough bounces back to its original shape
- Nothing happens

KS1 Science Quiz - Forces - Changing Shape (Answers)

1. Susan makes pottery. She mixes clay and water. She _____ the clay on a potter's wheel.



- Draws
 Paints
 Shapes
 Drags

The clay can be shaped. The clay is moulded. The clay stays in its new shape

2. The picture is of a blacksmith making a horse-shoe. The blacksmith makes the horse-shoe from steel.

It is very difficult to change the shape of the steel. The blacksmith has to heat the steel so it is red hot and then hit it with a hammer. This is because steel is a _____ material.



- Weak
 Hard
 Soft
 Bendy

What shape is a horse-shoe?

3. Alice is rolling pastry. When Alice has rolled the pastry, the pastry is _____.



- Heavier
 Thicker
 Colder
 Thinner

Do you like rolling pastry?

4. These puppets are made from modelling clay. This shows that modelling clay can be _____.



- Melted
 Burned
 Shaped
 Stirred

What is the best thing you have ever made with modelling clay?

5. The man is squashing an empty drinks can. The can changes shape. The can:



- Will go back to its original shape
- Will stay in its new shape
- Will rebound like a rubber ball
- Will spring back like a rubber band

This change in shape is permanent

6. Mike pulls on a rubber band. It stretches and gets longer. What happens when Mike stops pulling?



- The rubber band goes back to its original shape
- The rubber band stays longer
- The rubber band gets even longer
- The rubber band changes colour

Rubber bands are elastic. They can go back to their original shape and size

7. Beatrice sits down on a bean bag. The bean bag:



- Changes shape
- Stays the same shape
- Gets much bigger
- Gets much smaller

Do you have a bean bag in your house?

8. This man is making bread. He is working the dough. He pushes and pulls the dough. Every time he does this the dough:



- Changes shape
- Changes colour
- Bounces back to its original shape
- Gets heavier

Have you ever made bread? Have you ever worked the dough?

9. Thin metal can change shape if you push hard enough.

This car has had a bump. Another car bumped into it. The car has a dent. It has changed _____.



- Colour
- Shape
- Size
- Weight

It is very hard to repair the dent. It is hard to put it back to the original shape

10. Ben pushes down on the play dough. What happens?



- The play dough changes shape
- The play dough melts
- The play dough bounces back to its original shape
- Nothing happens

What can you make with modelling clay?