

KS1 Science Quiz - Energy - Hot And Cold (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 heat energy and hot and cold temperatures.

Heat is a type of energy. It is not nice to be too cold. It is nice to be warm. But being too hot can be a bad thing. At school you will have learned that we measure how hot or cold it is by taking the temperature. We use thermometers to measure the temperature. These questions are all about being hot and cold, about temperature and about heat energy.

1. What do we use to measure temperature?



- A ruler
- A thermometer
- A compass
- A calculator

2. This is a bonfire. Why is the bonfire hot?



- Because the sun is shining
- Because it is a yellow colour
- Because the wood is burning
- Because the wood is melting

3. How do you know the water is very hot?



- Because you can see through the dish
- Because the dish is transparent
- Because there is no lid on the dish
- Because the water is boiling

4. What do we call how hot or cold it is?



- The weather
- The temperature
- The pressure
- The height

5. Tom's Mum opens the fridge door. She says it is:



- Cooler inside the fridge than outside the fridge
- Cooler outside the fridge than inside the fridge
- Warmer inside the fridge than outside the fridge
- Just as warm inside the fridge as outside

6. The picture shows a pond in a park. How do you know the water in the pond is very cold?



- Because the water has frozen
- Because there are no leaves on the trees
- Because the sun is shining
- Because the water has melted

7. Ellie's house has central heating. The rooms in the house are heated by radiators.

Ellie's Mum says, 'It is too warm.' She turns down the central heating. What does Ellie's Mum use to turn down the central heating?



- A thermometer
- A thermostat
- A radiator
- A boiler

8. This stove is very hot. It has a lot of ____ energy.



- Sound
- Heat
- Electrical
- Magnetic

9. We can sense if we are hot or cold. Which part of us senses hot or cold?



- Our eyes
- Our hair
- Our skin
- Our ears

10. Holly and Beth are playing in the snow. It is cold. Before they went out, their Mum told them to:



- Eat some sweets
- Get wet through
- Wrap up warm
- Fall out among themselves

KS1 Science Quiz - Energy - Hot And Cold (Answers)

1. What do we use to measure temperature?



- A ruler
- A thermometer
- A compass
- A calculator

Have you ever used a thermometer?

2. This is a bonfire. Why is the bonfire hot?



- Because the sun is shining
- Because it is a yellow colour
- Because the wood is burning
- Because the wood is melting

Burning produces a lot of heat

3. How do you know the water is very hot?



- Because you can see through the dish
- Because the dish is transparent
- Because there is no lid on the dish
- Because the water is boiling

Remember - never touch pans or dishes on cookers

4. What do we call how hot or cold it is?



- The weather
- The temperature
- The pressure
- The height

Temperature is measured in degrees centigrade ($^{\circ}\text{C}$)

5. Tom's Mum opens the fridge door. She says it is:



- Cooler inside the fridge than outside the fridge
- Cooler outside the fridge than inside the fridge
- Warmer inside the fridge than outside the fridge
- Just as warm inside the fridge as outside the fridge

Fridges keep food cool. Freezers are very cold. They freeze food

7. Ellie's house has central heating. The rooms in the house are heated by radiators.

Ellie's Mum says, 'It is too warm.' She turns down the central heating.

What does Ellie's Mum use to turn down the central heating?



- A thermometer
- A thermostat
- A radiator
- A boiler

Do you have a thermostat on the wall of your classroom at school?

6. The picture shows a pond in a park. How do you know the water in the pond is very cold?



- Because the water has frozen
- Because there are no leaves on the trees
- Because the sun is shining
- Because the water has melted

Water freezes and turns into ice. Water is a liquid. Ice is a solid

8. This stove is very hot. It has a lot of ____ energy.



- Sound
- Heat
- Electrical
- Magnetic

Be careful! Never touch a hot stove

9. We can sense if we are hot or cold. Which part of us senses hot or cold?



- Our eyes
- Our hair
- Our skin
- Our ears

If we are too cold, we start shivering

10. Holly and Beth are playing in the snow. It is cold. Before they went out, their Mum told them to:



- Eat some sweets
- Get wet through
- Wrap up warm
- Fall out among themselves

How have Holly and Beth wrapped up to stay warm?