

## Y8 - Thermal Energy Pre-Test

Name: \_\_\_\_\_

1. Type, in the boxes below, the words in the spelling test. (4 marks)

(The speaking function works only if you are using Chrome or Safari browsers.)

Play the first word

Play the second word

Play the third word

Play the fourth word

2. Click and move across to join each definition to its correct description. (2 marks)

Degree

The unit of measurement for energy

Joule

The temperature scale that is based on the properties of water

Celsius

The unit used for measurement on a temperature scale

3. Type one word in each box to match the definitions given. (3 marks)

A material that transfers heat very slowly is called an...

A material that transfers heat very quickly is called a...

When an object is melting or boiling its temperature is...

4. Complete the sentences below. (11 marks)

Heat is a type of \_\_\_\_\_. We can predict whether heat will move between two objects by measuring the \_\_\_\_\_ of the two objects: heat always moves from a \_\_\_\_\_ object to a \_\_\_\_\_ object. One way in which heat energy can be transferred is by convection, which can happen in gases but not in \_\_\_\_\_. Convection makes hot air \_\_\_\_\_ and carries heat energy to other parts of the air that are colder. The other two ways in which heat energy can be transferred are \_\_\_\_\_ and \_\_\_\_\_. The **rate** at which any energy is transferred is measured in \_\_\_\_\_. In many machines, energy is wasted as \_\_\_\_\_. If we divide the useful energy transferred by a machine by the total energy given to the machine we get the machine's \_\_\_\_\_.

TOTAL MARKS \_\_\_\_\_ / 20