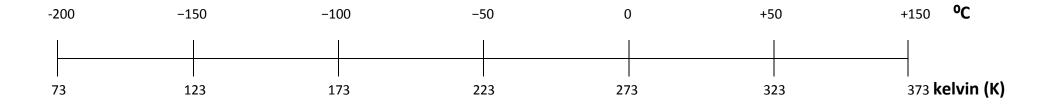


Key Stage 3 – Cold chemistry

Colder and colder...

Student worksheet 1

- Match each temperature card to one picture card.
- Place the temperature and picture cards in the correct places on the temperature line below.



Questions

- 1. If the temperature is 0 °C what is the temperature in kelvin?
- 2. If the temperature is -100 °C what is the temperature in kelvin?
- 3. Which is hotter the temperature of boiling water or the surface of the Moon during the day?
- 4. Which is cooler the surface of the Moon at night or the coldest temperature recorded on Earth?

Student worksheet 2

Temperature cards

| 58 °C | – 89 °C | 100 °C | 0 °C | 38 °C | 42 °C | 37 °C |
|------------|---------|--------|---------|--------|-------|-------|
| 35 – 41 °C | 4 °C | −18 °C | −153 °C | 107 °C | | |

Picture cards

| | 1 | T | T | T | Γ . | T |
|-------------------|--|--------------------|----------------------|-----------------|------------------|-------------------|
| Hottest | Hottest | Typical freezer | Melting point of ice | Temperature of | Body temperature | Temperature of |
| temperature | temperature in the | temperature | | the Moon during | of a chicken | the Moon at night |
| recorded on Earth | UK | | | the day | | |
| (Libya, 1922) | | | | | | |
| | 120 Institutional and 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | |
| Boiling point of | Body temperature | Coldest | Body temperature | Typical fridge | | |
| water | of a human | temperature | of a camel | temperature | | |
| | | recorded on Earth | 0. 0 000. | | | |
| | | (Antarctica, 1983) | | | | |
| | | (Antarctica, 1969) | | | | |

-89000

35-41 90

-1800

-15300

Hottest temperature on Earth



Hottest temperature in the UK



Typical freezer temperature





Temperature of the Moon in the day

Temperature of the Moon at night



Body temperature of a chicken





Boiling point of water

Body temperature of a human



Body temperature of a camel



Typical fridge temperature

