The City School, PAF Chapter, Junior Section Science Worksheets Year 4

You leave a hot cup of coffee in the kitchen overnight. In the morning, the temperature of the coffee will be ...

- A the same as it was the night before.
- **B** hotter than the temperature of the air in the kitchen.
- **c** the same as the temperature of the air in the kitchen.
- D colder than the temperature of the air in the kitchen.

Which list shows things that *all* need to use mains electricity?

- A electric cooker, electric fire, fridge
- B personal stereo, electric cooker, washing machine
- c torch, personal stereo, radio
- D fridge, torch, washing machine

Ice lollies melt. Which lolly will melt the quickest?

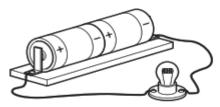


- A An ice lolly taken out of its wrapper on a cold day.
- **B** An ice lolly left in its wrapper on a cold day.
- **C** An ice lolly taken out of its wrapper on a hot day.
- D An ice lolly left in its wrapper on a hot day.

In winter people wear ...

- A thicker clothes to keep them cool.
- B thicker clothes to keep them warm.
- **c** brighter clothes to keep them warm.
- D thinner clothes to keep them warm.

Katy makes a circuit. The bulb glows brightly.



What could happen if she puts another 2 batteries into her circuit?

- A The batteries may burn out.
- B The bulb will get dimmer (less bright).
- **C** The bulb will stay the same.
- D The bulb could break.

Why are batteries safer than mains electricity?

- A They can be switched off.
- B You can throw them away.
- **C** They produce more electricity than the mains.
- D They do not produce as much electricity as the mains.

Which of these stop your hands getting too hot?

A oven gloves

B woolly gloves

c silk gloves

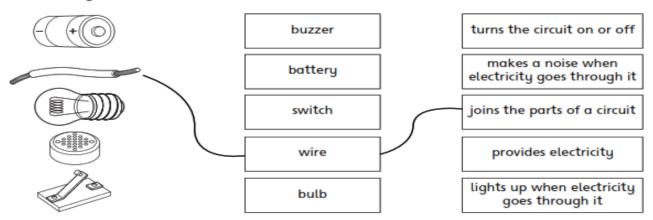
D boxing gloves



Only one of these safety rules is correct. Which one is it?

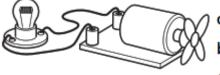
- A Always fly a kite near overhead power lines.
- **B** Never touch switches with wet hands.
- **C** You can take electrical things apart without unplugging them.
- **D** Touch the metal parts of plugs when you are plugging something in.

Draw lines to match the drawings to the names and uses. One has been done for you.



This circuit does not work. What is wrong with it?

How much electricity will these combinations of batteries provide?



a Two 6 V batteries.

b Three 1.5 V batteries.

c Three 4.5 V batteries.

Q. Tick the boxes in the table to show where each hing gets its electricity from.

	Mains	Batteries
personal stereo 🔊 🤇		
television		
fridge		
torch		
camera 💮		
electric fire		

Q. Write the following animals and plants in their respective columns:

Shark Lizard duck Cactus Cow Giraffe Rose plant Octopus Zebra Snake Lion monkey Palm tree Camel deer Seaweed Penguin macaw Starfish seal goat sheep

Walrus Thrush Earthworm Water boatman Slug Ostrich Frog lady bird Horse scorpion

Dese rt	Ocea n	Pon d	Pol es	Far m	Gard en	Grassla nd	Fore st