

Discovery and Science Badge



Aim: To promote an awareness of our environment

Object: To encourage through enquiry, experiments and discovery interaction of objects we meet everyday

Junior Candidates

Choose 4 of the following

1. To be able to sort pictures/objects according to given characteristics
2. To be able to identify colours and match/sort objects according to colour (primary colours + black and white)
3. To make different sounds using a variety of objects
4. Identify 4 ways to keep food or objects hot or cold
5. List 3 effects of heating or cooling on food or drink.

Candidates

Choose 7 of the following

1. To be able to sort pictures/objects according to given characteristics
2. To be able to identify colours and match/sort objects according to colour (primary colours + black and white) use sheet.
3. To make different sounds using a variety of objects
4. Identify 4 ways to keep food or drink hot or cold
5. List 3 effects of heating or cooling on objects
6. Identify 4 items that use electricity
7. List two safety rules regarding electricity.
8. Make a waterproof outfit for the given cut out character and identify what happens to different materials as they get wet.

Junior Members

7-9 choose seven of the following

9-11 complete 9 of the following

1. Identify between high and low, loud and soft sounds
2. Design and make a musical instrument
3. Identify uses of electricity around the home
4. List six safety rules regarding electricity using the worksheet.
5. Identify renewable sources of energy
6. Design and make a cover to keep your drink warm.
7. Know how to read a thermometer. Keep a record of the temperature over a period of two weeks
8. Sort objects according to their ability to sink or float- identify how the forces sinking and floating are used in everyday life – use worksheet
9. Identify 4 substances that can be changed by mixing with another substance or by applying physical force and demonstrate
10. Design a safety suit for Humpty Dumpty (see resource pack)
11. Give 6 ways you can save electricity in the home

Members

(11-13) choose 9 of the following

(13-15) complete 10 of the following

1. List six safety rules regarding electricity.
2. Identify renewable sources of energy
3. Make a solar panel
4. Know how to read a thermometer (sheet supplied)
5. Keep a record of the temperature over a period of two weeks
6. Identify 4 substances that can be changed by mixing with another substance or by applying physical force and demonstrate
7. Design a safety suit for Humpty Dumpty (see resource pack)
8. Identify the 3 states of matter – liquid, solid, gas and be able to give example of each
9. Design and make a volcano
10. Identify uses of gases in everyday life
11. Create your own science experiment and present the results
12. Give 6 ways you can save electricity at home.

Senior Members 15+

Help to teach the younger girls to complete this badge.