

# ELECTRONICS

## SCIENCE BADGE ACTIVITY SHEET

This is a sample Electronics Activity Sheet only. Its main purpose is to show you some of the interesting activities that you can do when you choose this badge. Also, you can use this sample sheet to start doing the badge activities, while your teacher is sending away for the full activity sheet and badge. If you have completed some of these activities before your full sheet arrives, your teacher can mark this sheet, then transfer the marks to the full activity sheet.

Rating

Exercises in Electronics

Teacher's  
initials  
and date

1\* Make a collection of newspaper and/or magazine articles on recent developments in electronics.

3\* Make a small wall chart showing how we can identify carbon resistors by their colour code.

8\*\* Draw a block diagram of a simple radio transmitter and explain in your own words what happens at each stage. Include words like "carrier wave," "frequency," "wavelength" and "modulated."

15\*\* Collect and name at least 10 different components found in a radio or TV set.

16\* Demonstrate to your teacher that you can use a multimeter to measure voltage, current and resistance.

18\*\*\* Find out what a bridge rectifier is. Construct one using diodes and demonstrate it working, using a power pack from school which has a low voltage A.C. supply.

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