

# HOME CHEMISTRY

## SCIENCE BADGE ACTIVITY SHEET

This is a sample Home Chemistry 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 Home Chemistry

Teacher's  
initials  
and date

1\* Build a small meths burner using a small glass bottle and cotton wool as a wick. Your burner must contain less than a quarter of a cup of meths when full. CAUTION: do not use any other liquid in your burner and only use it with an adults permission. Show it to your teacher.

2\*\* Construct a small tripod to go with your burner, perhaps using a small tin. Demonstrate your burner and tripod to your teacher by boiling some water in a small can. Time how long it takes to boil half a cup of water.

3\*\* Make a funnel by cutting the top third off a plastic soft drink bottle. Use a circle of paper towels as filter paper. Demonstrate how it works to your teacher by filtering a mixture of soil and water.

6\*\* Make hokey pokey by putting 4 tablespoons of sugar and 2 of golden syrup in a saucepan. Bring to the boil and simmer gently for about 5 minutes. Then add a heaped teaspoon of baking soda and stir vigorously. Put in a greased dish to cool. heating baking soda releases  $\text{CO}_2$  which makes the hokey pokey rise. Show a sample to your teacher.

8\*\* Crush some barbecue charcoal to a powder. Shake a coloured liquid such as meths or cordial with the charcoal and then filter. Write a brief report on what you saw happen.

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