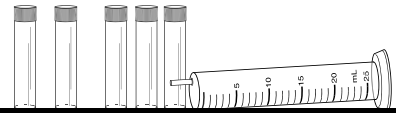
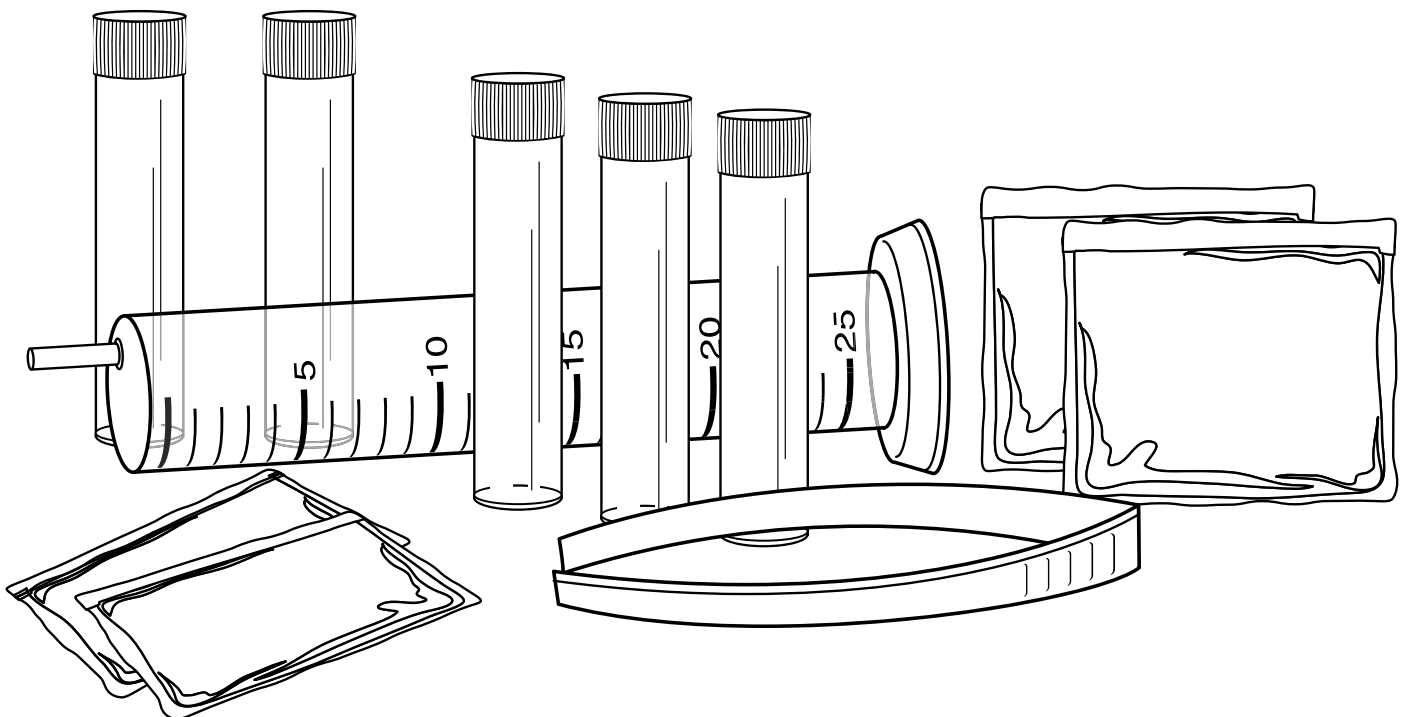


Teachers Notes

PERFUME LABORATORY



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PERFUME LABORATORY

INTRODUCTION

PERFUME LABORATORY is a fun activity that promotes scientific thinking. It encourages children to investigate and explore a selection of chemicals and compounds. There are plenty of opportunities for pupils to invent their own products and record their findings.

The PERFUME LABORATORY kit comes complete with a comprehensive set of instructions and guidance for how to handle the chemicals safely.

The kit contains all that is needed to carry out a selection of experiments, including protective gloves etc.

PERFUME LABORATORY activities are appropriate for pupils in K.S.2.

PERFUME LABORATORY activities are linked to the National Curriculum:

S.C.1 Scientific Enquiry

1. Creative thinking.
2. Looking at cause and effect.
3. Investigative skills; thinking about what to do next and choosing appropriate equipment.
4. Making a fair test and changing one factor then measuring results.
5. Using simple equipment and materials effectively.
6. Using a wide range of recording methods.

PERFUME LABORATORY

S.C.3 Materials and their properties.

1. Comparing everyday compounds and solutions.
2. Observing changes when compounds are mixed.
3. Mixing and filtering liquids.

Links can also be made to the Q.C.A. Units of study;

- 3C Characteristics of materials.
- 4D Solids, liquids and how they can be separated.
- 5D Changing state.
- 6C More about dissolving.

OUTLINE

PERFUME LABORATORY involves blending and mixing 'base perfumes' to create new scents and smells. The experiments involve some accurate measuring and mixing. Pupils will also need to filter and separate their solutions.

These activities lead to many opportunities for observation and discussion, there will then be opportunities for pupils to become creative and inventive involving experimentation and exploration. These activities lead pupils into making comparisons and choices. With opportunities to record their likes and dislikes.

More information on the science involved in PERFUME LABORATORY can be found in the comprehensive instruction manual.

The following notes suggest how the activities can be related to classroom activities.

INFORMATION RELATING TO CLASSROOM ACTIVITIES

The best learning opportunities are had when pupils can have a 'hands on' experience.

It is assumed that pupils will be working in small groups of four, pairs if equipment allows. These activities work well when demonstrated by the teacher but pupils do need to get in close to smell, feel and touch the results!

Additional equipment needed:

Protective latex gloves

Flower petals

Herbs

Access to warm water

Newspaper to cover the table

Additional containers for mixing

Small bottles for storing

A background knowledge of fragrances would be useful.

A collection of items that contain fragrances used in the home could be displayed, (perfumed candles, deodorants, incense sticks, cleaning products etc - CAUTION with these as some pupils may be sensitive to the contents of fragrances).

Aerosol containers should not be included.

Cross curricular links could be made with references to the history of fragrances and their uses during the Great Plague! Maths and numeracy skills will be required as pupils use and apply their knowledge of recording data as tables and graphs. Plenty of opportunities for descriptive words and the writing of instructions can be linked to literacy skills.

INFORMATION RELATING TO CLASSROOM ACTIVITIES

Activity sheet 1.

Corresponds to the making of the basic perfume solutions. It requires pupils to write step by step instructions for another pupils to follow. Pupils will need to read and follow the instructions carefully. Groups will need to work co-operatively as the activity is quite 'fiddly'.

Activity sheet 2.

Involves pupils discovering or describing the perfume of common household products e.g. soap, washing up liquid, wax polish etc. It will lead to discussions on pupils' likes and dislikes and will involve sorting and categorizing. It will also require pupils to record their findings as a table or graph.

Activity sheet 3.

Requires pupils to conduct a survey, collect and record data as a table or graph. A selection of household products will be needed, as above.

PERFUME LABORATORY ACTIVITY SHEET 1

MAKING PERFUME.

Get out all the equipment and make a list of all you need to carry out this activity

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Write a list of instructions for another pupil to follow.

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Describe the 4 fragrances that you could use.

1. Mint

2. Eucalyptus

3. Jessamine

4. Rose

PERFUME LABORATORY ACTIVITY SHEET 2

COMPARING PERFUMES

Collect a selection of products that contain fragrances.

Sort them into 2 or 3 categories, e.g. 'fruity' 'woody' 'flowery'.

You choose the descriptions!

Create a table to show how you have categorized the products.

	Category 1	Category 2	Category 3
Description:			
Product 1 is			
Product 2 is			
Product 3 is			
Product 4 is			
Product 5 is			
Product 6 is			

PERFUME LABORATORY ACTIVITY SHEET 3

A SURVEY OF FRAGRANCES

Select 6 products to use in your survey.

Select a sample of 6 pupils.

1. Ask pupils to smell and describe the fragrances. Make notes as you go around.
2. Ask each person which product they prefer the smell of and record your findings.

Record your findings on this table.

Pupil's names	Pupil 1	Pupil 2	Pupil 3	Pupil 4	Pupil 5	Pupil 6
Product 1 is						
Product 2 is						
Product 3 is						
Product 4 is						
Product 5 is						
Product 6 is						

Explain your findings.

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