

## **RAISE THE ATTAINMENT OF PRIMARY SCIENCE**



### **THE MOBILE PRIMARY SCIENCE WORKSTATION That turns any classroom into a Science lab**

#### **HOW YOU CAN RAISE THE SCIENCE ATTAINMENT OF YOUR PUPILS USING A MOBILE PRIMARY SCIENCE WORKSTATION**

##### **DETAILS OF THE WORKSTATION**

- The Mobile Science Workstation is extremely well made and hard -wearing. It has been in schools for nearly fifteen years and shows little wear and tear.
- It is fully mobile and can be moved from class to class and when being used the wheels can be locked to ensure the workstation is completely stable.
- With the three flaps down, the centrepiece, containing a gas tap, sink and electrical outputs measures 200cm by 128cm. There are three flaps that can be raised; each measuring 68cm by 60cm and it is 79cm high. This is a comfortable height for both teacher and pupils.
- It is brightly coloured to enhance the feeling of fun when doing Science.

##### **SIGNPOSTING THE SUBJECT**

When the mobile workstation is wheeled out and the teacher puts on the white lab coat it acts as a 'signpost' to the pupils that they are going to do Science. This is really important for the younger pupils and will generate an enthusiasm for the subject and make Science fun. Pupils watch television and see Science being undertaken in laboratories and so we need to give them a similar experience in school, which can be achieved by using a workstation.

## RAISE THE ATTAINMENT OF PRIMARY SCIENCE

### A FACILITY FOR DEMONSTRATIONS

The workstation can be used as a platform for the teacher to carry out a scientific demonstration to the whole class. This could include liquids, Bunsen burner flame, electrical equipment and focuses the pupil's interest in all that is happening. Once again Science is being carried out on a purpose built Science facility rather than just a desk, giving it a greater level of importance and interest.

### A FACILITY FOR INVESTIGATIVE SCIENCE

The workstation can be used as a platform for pupils to carry out experiments. Due to the versatility of its size you can have 4, 8 or 12 pupils all working at the workstation. The rest of the class can be involved in independent learning. This could be writing up a previous investigation, planning their next investigation or researching their current area of study.

### SCIENCE COURSE BOOK

The workstation comes complete with a course book for delivering investigative Science. It has been designed for non-specialists, so that they can deliver all the investigations needed from Y1 to Y6. It matches the current PoS and also contains risk assessments and an assessment scheme for practical Science.

An example of an investigation

### SEPERATING MATERIALS

#### Equipment:

A mixture of sand,salt,iron filings, cork pieces. A magnet, filter paper, beaker, funnel, workstation.

#### Introduction:

Discuss how to do the investigation and agree a plan.

#### Questions to ask:

- What do we know about cork?
- What do we know about iron filings?
- What do we know about salt?
- What do we know about sand?

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### Risk Assessment

- What are the dangerous areas of this investigation?
- What can we do to make the investigation safe?

### Hypothesis:

I think that we can separate the substances by.....

### Method:

- Use a magnet to remove the iron filings.
- Put the rest of the mixture in water. The cork will float and can be removed.
- Stir the sand and salt until all the salt has dissolved.
- Filter the mixture. The salt solution will pass through the filter paper. The sand will be left behind. Use the sink to scrape the sand from the filter paper.
- Put the salt solution into a beaker and put over a Bunsen flame to evaporate the water and leave the salt.

### Record your results:

We separated iron filings by..... We separated the cork by.....etc.

### Conclusion:

Write a conclusion for the investigation. Explaining how you separated the different materials by using different techniques.

### Extension Work:

In this investigation we have used floating, magnetism, dissolving and evaporation. Can you think of any other techniques we can use to separate materials and what would those materials be?

## TRAINING PROGRAMME

The workstation comes with a 'power point' presentation that the Science coordinator can use to train ALL staff so they can deliver great investigative Science.

## THE SCIENCE DEVELOPMENT AWARD – GOLD CERTIFICATE

Because the Mobile Science Workstation meets all the new requirements of Ofsted, schools that purchase one automatically receive the Science Development Award, gold certificate.

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### SCIENCE EQUIPMENT

- The workstation comes with the following equipment:
- Lab coat
- Bunsen Burner
- Rubber tubing for Calor gas Bunsen burner
- Simple Tripod
- 250ml Beaker
- 250ml Measuring Cylinder
- Packs of Filter Paper
- Plastic Funnel
- Simple Thermometer
- Simple Force Meter measuring in Newtons
- Magnets (1 small bar, 1 horseshoe, 1 floating magnet)
- Tuning Fork (key of C)
- Table Tennis Ball
- Plane Mirror
- Convex Lens
- Plastic prism
- Electricity Kit (2 battery holders, 3 bulb holders, bulbs, 1 buzzer, 1 switch, wires)
- Small spring
- Pulley
- Ready poured agar plates



### VALUE FOR MONEY

At a time when school budgets are under such pressure it is vital that anything purchased must be good value for money. The Mobile Primary Science Workstation costs £1,800. For this price you get:

- A mobile Science facility that can be used in every classroom and benefit every pupil in the school.
- It will improve the delivery of Science by every member of staff and raise the Science attainment throughout all year groups.
- Parents will love it and it shows the commitment the school is giving to the subject.
- Ofsted recognise that it meets all the new Science criteria they will be looking for in an inspection.

**For all of these reasons can you think of any better way to spend £1,800?**

To order a workstation or find out more information, visit:

**KLAEducation.co.uk**

or

**Email: david@KLAEducation.co.uk**