Technicians Requirements

**Details about equipment and resources needed for each of the lessons.**

**It has been divided into items for groups of pupils (recommended 5 pupils per group), so items will need to be multiplied accordingly. There are also items for the whole class.**

**Granny’s Cup of Tea**

* **Per group of pupils:**
  + **1 tray containing:** 
    - **2 stopwatches**
    - **2 medium beakers**
    - **1 plastic spoon**
    - **1 mass balance**
    - **1 250ml measuring cylinder**
    - **1 weighing boat**
  + **Sugar paper**
  + **Pens**
* **For the class:** 
  + **Sugar: granulated, icing, caster, cubes**
  + **Thermometers (if required)**

**Granny’s Minibeast Menu**

Pitfall trap(s) to be set up day before GMM Primary Science Day

* **Per group of pupils:**
  + **1 set of laminated minibeast cards**
* **For the class:** 
  + **Pooters**
  + **Sugar paper**
  + **Metre rulers**
  + **Magnifying cups (to study minibeasts) and/or trays (to store minibeasts)**
  + **Plastic spoons and/or forceps (to handle minibeasts)**
  + **Magnifying glasses**

**Fizz, Bang, Wallop**

* **Per group of pupils:** 
  + **6 enamel trays**
    - **Tray 1 containing:** 
      * **1 beaker of vinegar**
      * **1 pipette**
      * **1 beaker labelled ‘Floor Polish’**
    - **Tray 2 containing:** 
      * **1 beaker of tap water**
      * **1 pipette**
      * **1 beaker labelled ‘Helga’s Hair Gel’**
    - **Tray 3 containing:** 
      * **1 beaker of shampoo**
      * **1 pipette**
      * **1 beaker labelled ‘Golden Gloss Shampoo’**
    - **Tray 4 containing:** 
      * **1 beaker of lemonade**
      * **1 pipette**
      * **1 beaker labelled ‘Sheep Dip’**
    - **Tray 5 containing:** 
      * **1 beaker of toothpaste**
      * **1 pipette**
      * **1 beaker labelled ‘Brilliant False Teeth’**
    - **Tray 6 containing:** 
      * **1 beaker of bicarbonate of soda**
      * **1 pipette**
      * **1 beaker labelled ‘Horse lonzenge’**
  + **1 tray containing:**
    - **1 bottle of universal indicator**
    - **1 spotting tile**
    - **2 pH scales**
  + **1 tray containing:** 
    - **1 medium beaker**
    - **2 stopwatches**
* **For the class:** 
  + **4 trays**
    - **Tray 1 labelled ‘Mixture A’ containing:** 
      * **Small beakers of water**
      * **Weighing boats**
      * **Powdered vitamin C tablets**
    - **Tray 2 labelled ‘Mixture B’ containing:** 
      * **Small beakers of white vinegar**
      * **Weighing boats**
      * **Bicarbonate of soda**
    - **Tray 3 labelled ‘Mixture C’ containing:** 
      * **Small beakers of lemonade**
      * **Weighing boats**
      * **Icing sugar**
    - **Tray 4 labelled ‘Mixture D’ containing:** 
      * **Small beakers of citric acid**
      * **Weighing boats**
      * **Sherbet**
  + **Rulers**
  + **Pencils**

**Electrocuting Granny**

* **Per group of pupils:** 
  + **1 tray containing:** 
    - **1 multimeter/voltmeter**
    - **Black and red leads**
    - **1 copper strip**
    - **1 steel strip**
    - **2p coins**
    - **Steel nails**
    - **2 crocodile clips**
* **For the class:** 
  + **1 tray with a range of fruit (e.g., 1 orange, 1 lemon, 1 lime, 1 grapefruit, 1 potatoes, 1 courgette, 1 carrot, 1 apple)**