### General Laboratory Equipment for science in primary schools
**Kindergarten to Grade 6**

<table>
<thead>
<tr>
<th>QU</th>
<th>1.1. Data logging</th>
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<tbody>
<tr>
<td>1</td>
<td>USB adaptor</td>
</tr>
<tr>
<td>1</td>
<td>ATR temperature Sensor, plug in</td>
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<tr>
<td>1</td>
<td>Sound sensor ,plug-in</td>
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<tr>
<td>1</td>
<td>Water temperature, plug-in</td>
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<tr>
<td>1</td>
<td>Light sensor</td>
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<tr>
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<td>Temperature sensor</td>
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<td>sound sensor</td>
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<td>Humidity sensor</td>
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<td>Basic Roamer</td>
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<td>Roamer math’s work cards</td>
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<table>
<thead>
<tr>
<th>QU</th>
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<tr>
<td>2</td>
<td>OUTDOOR First Aid KIT</td>
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<tr>
<td>25</td>
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<td>25</td>
<td>Safety Goggles Indirect Vent</td>
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<td>3</td>
<td>Gloves</td>
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<td>Fire Blanket</td>
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<td>Quantity</td>
<td>Description</td>
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<td>----------</td>
<td>--------------------------------------------------</td>
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<tr>
<td>25</td>
<td>Viper- Safety Glasses</td>
</tr>
<tr>
<td>10 roll</td>
<td>BENCHGUARD</td>
</tr>
<tr>
<td></td>
<td>BENCHGUARD will protect surface from spillage. A strong absorbent paper with polycarbonate underside.</td>
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<tr>
<td>1</td>
<td>Accident Book</td>
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<td>2</td>
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<td>Plastic, Blue pack</td>
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<td><strong>QU</strong></td>
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<tr>
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<td>ACE monkey drug education KS2 CD</td>
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<td>ACE monkeys environment CD-ROM</td>
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<td>1</td>
<td>ALL-about materials CD-ROM</td>
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<td>1</td>
<td>Butterflies, bugs &amp; other beasties CD-ROM</td>
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<tr>
<td>1</td>
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</tr>
<tr>
<td>1</td>
<td>Early science CD ROM</td>
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<tr>
<td>1</td>
<td>Garden wildlife CDROM</td>
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<td>1</td>
<td>Interactive PSHE &amp; Citizenship-ks1</td>
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<tr>
<td>1</td>
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<td>Science explorer II</td>
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## 1.4 Audio visual equipment

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<tr>
<td>2</td>
<td>Overhead Projector</td>
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<tr>
<td>2</td>
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<tr>
<td>10</td>
<td>A computer and a screen</td>
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<tr>
<td>2</td>
<td>A television</td>
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<tr>
<td>2</td>
<td>Video</td>
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<tr>
<td>2</td>
<td>DVD and video player</td>
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<td>Internet access</td>
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<td>Video camera</td>
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<td>Printer</td>
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<td>12</td>
<td>Computers</td>
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<td>Multimedia projector</td>
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<td>Scanner</td>
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<td>Laminator</td>
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<td>Magnetic screens.</td>
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<td>Cassette recorder</td>
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<td>Digital camera, battery, empty memory card</td>
</tr>
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<td>6</td>
<td>Calculators</td>
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## 1.5 Videos & DVDs

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<tr>
<td>1</td>
<td>Blood &amp; circulation DVD-R</td>
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<td>Description</td>
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<tr>
<td>------</td>
<td>-------------</td>
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<tr>
<td>1</td>
<td>Blood &amp; circulation VHS</td>
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<tr>
<td>1</td>
<td>Bones &amp; muscles DVD-R</td>
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<tr>
<td>1</td>
<td>Cells DVD-R</td>
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<tr>
<td>1</td>
<td>Digestion VHS</td>
</tr>
<tr>
<td>1</td>
<td>Erosion DVD - R</td>
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<tr>
<td>1</td>
<td>Food Web VHS</td>
</tr>
<tr>
<td>1</td>
<td>Life cycles DVD – R</td>
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<tr>
<td>1</td>
<td>Life cycles VHS</td>
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<tr>
<td>1</td>
<td>Plants DVD-R</td>
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<tr>
<td>1</td>
<td>Plants VHS</td>
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<tr>
<td>1</td>
<td>Solids and liquids KIT</td>
</tr>
<tr>
<td>1</td>
<td>Characteristics of materials KIT</td>
</tr>
<tr>
<td>1</td>
<td>Teeth and Eating KIT</td>
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<tr>
<td>1</td>
<td>Rocks and Soils KIT</td>
</tr>
<tr>
<td>1</td>
<td>Seeds and Green Plants KIT</td>
</tr>
<tr>
<td>1</td>
<td>Changing sounds KIT</td>
</tr>
<tr>
<td>1</td>
<td>Force and Friction Kit</td>
</tr>
<tr>
<td>1</td>
<td>Light and Shadows KIT</td>
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<tr>
<td>1</td>
<td>Magnet and springs KIT</td>
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<tr>
<td>1</td>
<td>Electricity KIT</td>
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<tr>
<td>1</td>
<td>New heat KIT</td>
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<td></td>
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<td>---</td>
<td>---</td>
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<tr>
<td>1</td>
<td>Gases around KIT</td>
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<tr>
<td>1</td>
<td>Earth. sun and moon KIT</td>
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<tr>
<td>1</td>
<td>Dissolving and changes KIT</td>
</tr>
</tbody>
</table>

**QU 1.6 Textbooks**

**QU 1.7 On –Line books**

| 1 | On – line science books |
| 1 | Living Science Experiment Books |
| 1 | Enquiry science book |
| 1 | General science KIT |
| 1 | Bumper Science KIT |

1. Active Science Series
   The scheme consists of :-
   - Science 1
   - Science 2
   - Science 3
   - Science 4
   - Science 5
   - Science 6

1. Science Big Books
   - big book Year 1
   - big books Year 2

1. Investigation KIT

1. Measurement charts

1. KS2 Science Writing Posters

1. Science Question Cards KIT
### DESCIPHER IT Game

This game required children to define the scientific word without saying any of the list vocabulary and guess the word correctly:
- Key word chase
- Keyword chase – electricity
- Keyword chase – biology
- Keyword chase materials

1 Enquiry science book

**QU 1.8 Science KIT**

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<tr>
<td></td>
<td>General science KIT</td>
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<tr>
<td></td>
<td>Bumper Science KIT</td>
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<tr>
<td></td>
<td>Investigation KIT</td>
</tr>
<tr>
<td></td>
<td>Science window KIT</td>
</tr>
<tr>
<td></td>
<td>Metal insert KIT</td>
</tr>
<tr>
<td></td>
<td>Flower cross section/electric circuit KIT</td>
</tr>
<tr>
<td></td>
<td>Body organs tooth cross section KIT</td>
</tr>
<tr>
<td></td>
<td>Earth n&amp; beyond star constellation KIT</td>
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<tr>
<td></td>
<td>House outline flowering plant KIT</td>
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**QU 1.9 Slides and Viewers**

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<thead>
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<tbody>
<tr>
<td></td>
<td>Investigator slide viewer</td>
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<tr>
<td></td>
<td>Investigator slide sets</td>
</tr>
<tr>
<td></td>
<td>Investigator scout</td>
</tr>
<tr>
<td></td>
<td>Little things contents:</td>
</tr>
<tr>
<td>---</td>
<td>----------------------------</td>
</tr>
<tr>
<td></td>
<td>Newspaper print, crystals, silicon chip, Feather, Spider head, Cork, Stained Onion skin, Unstained Onion skin, Water Flea, Butterfly Wing, Cheek cell, Sunflower stem, cavity slides, acetate rulers, flat slides, booklet.</td>
</tr>
<tr>
<td>13</td>
<td>Animals introductory micro slide set</td>
</tr>
<tr>
<td>13</td>
<td>Plants introductory micro slide set</td>
</tr>
<tr>
<td>6</td>
<td>Micro – slide viewer</td>
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<tr>
<td>6</td>
<td>Micro – slide sets</td>
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<tr>
<td>6</td>
<td>Junior Microscope</td>
</tr>
<tr>
<td>6</td>
<td>LED simple Microscope</td>
</tr>
<tr>
<td>6</td>
<td>Student microscopes : Student fine SUB – stage illuminator student illuminated Student led microscope</td>
</tr>
<tr>
<td>6</td>
<td>Student stereo illuminated</td>
</tr>
<tr>
<td>6</td>
<td>Big screen microscope</td>
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<tr>
<td>6</td>
<td>2 way magnifier microscope</td>
</tr>
<tr>
<td>6</td>
<td>Hand microscope</td>
</tr>
<tr>
<td>6</td>
<td>Microscope slides ground edge</td>
</tr>
<tr>
<td>6</td>
<td>Microscope slides plastic</td>
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<td>3</td>
<td>Cover slips plastic Pack</td>
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<tr>
<td>6</td>
<td>Digiscope 300: Dm52 digital microscope</td>
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<td>QU</td>
<td>1.10 Chemicals</td>
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<tr>
<td>2.5 Liters</td>
<td>Acetic Acid 1.0M</td>
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<tr>
<td>500g</td>
<td>Aluminum Potassium Sulphate – 12 Water</td>
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<td>100g</td>
<td>Aluminum Rivets</td>
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<td>250 g</td>
<td>Brass Filings</td>
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<td>250g</td>
<td>Brass Rivets</td>
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<tr>
<td>500g</td>
<td>Chromium (III) Potassium Sulphate -12 Water</td>
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<tr>
<td>500g</td>
<td>Copper (II) Sulphate -5- Water</td>
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<tr>
<td>250g</td>
<td>Copper Foil</td>
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<tr>
<td>500g</td>
<td>Copper Millings</td>
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<tr>
<td>2.5 Litres</td>
<td>Hydrochloric Acid 0.1m</td>
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<tr>
<td>500g</td>
<td>Iron (II) Sulphate -7- Water</td>
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<tr>
<td>500g</td>
<td>Iron Filings (Coarse )</td>
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<tr>
<td>250g</td>
<td>Iron Filings (Fine)</td>
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<tr>
<td>500g</td>
<td>Lead Foil</td>
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<tr>
<td>100cm³</td>
<td>Litmus Solution</td>
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<tr>
<td>1kg</td>
<td>Rock Salt</td>
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<td></td>
<td>Methylated spirits</td>
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<td>Weight</td>
<td>Item</td>
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<td>--------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>1kg</td>
<td>Salt (Sodium Chloride)</td>
</tr>
<tr>
<td>1kg</td>
<td>Sand</td>
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<tr>
<td>5kg</td>
<td>Sand, Fine, White</td>
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<tr>
<td>3kg</td>
<td>Sodium Hydrogen Carbonate</td>
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<td>2.5 Litters</td>
<td>Sodium Silicate</td>
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<td>Ethanol</td>
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<td>1kg</td>
<td>Sucrose</td>
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<td>Sulphuric Acid</td>
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<td>Roll Of 250g</td>
<td>Tin Foil</td>
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<td>100cm³</td>
<td>Universal Indicator Fluid Ph1 To 14</td>
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<td>Colour Chart</td>
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<td>Water Deionised</td>
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<tr>
<td>500g</td>
<td>Wax</td>
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<td>250g</td>
<td>Zinc Foil</td>
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**QU 1.11 Balance**

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<td>Digital Balance</td>
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<td>6</td>
<td>Bucket Balance</td>
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<td>Rocker Scales</td>
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<td>Compression Balance</td>
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**QU 1.12 Batteries**

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<tr>
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<tbody>
<tr>
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<td>Dry Cell and Batteries</td>
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<td>Item Code</td>
<td>Description</td>
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<td>25</td>
<td>Alkaline- Manganese, Duracell “Procell”</td>
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<td>Bulk Battery Packs</td>
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<td><strong>QU</strong></td>
<td><strong>1.12 Beakers</strong></td>
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<tr>
<td>50</td>
<td>Beakers, Polypropylene, Azlon</td>
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<tr>
<td>50</td>
<td>Beakers, SQUAT Form, Graduated, with spout</td>
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<tr>
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<td>Beakers, TRI-Pour</td>
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<tr>
<td>50</td>
<td>Flasks, Conical Economy, Wide Mouth, Graduated, Borosilicate</td>
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<td>10</td>
<td>Spatula, Raised centre</td>
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<td>20</td>
<td>Stirring Rods</td>
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<td>Containers, Circular Transparent Polystyrene</td>
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<td>Bottles, Glass</td>
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<td>Dropping Bottles</td>
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<td>Polythene Dropping Bottle</td>
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<td>Wash Bottle Polythene</td>
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<td>Filter Funnels</td>
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<td>Petri Dishes</td>
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<td>Sporting Tray</td>
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<td>Forceps</td>
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<td>Trays</td>
</tr>
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<td>Sorting Tray, Large</td>
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<td>Quantity</td>
<td>Item</td>
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<td>-----------------------------</td>
</tr>
<tr>
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<td>Porcelain Tiles</td>
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<td>Metal Dishes</td>
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<tr>
<td>6</td>
<td>Methalated Burner</td>
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<td>6</td>
<td>Candles</td>
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<td>Sand Bath</td>
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<td>Gas Lighter, Piezo Electric</td>
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<td><strong>1.15 Heating</strong></td>
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<td>12</td>
<td>Gauze</td>
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<td>Tripod Stand</td>
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<td>12</td>
<td>Bench Mats</td>
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<td>12</td>
<td>Laboratory Burner, Gas Cartridge</td>
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<td>6</td>
<td>Heat KIT (not Bunsen burners)</td>
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<td><strong>QU</strong></td>
<td><strong>1.16 Hand Magnifiers</strong></td>
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<tr>
<td>6</td>
<td>Plastic Magnifiers</td>
</tr>
<tr>
<td>6</td>
<td>Magnifiers Bulk Pack</td>
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<tr>
<td>6</td>
<td>Magnifiers with hands</td>
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<tr>
<td>6</td>
<td>Large Magnifiers</td>
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<tr>
<td><strong>QU</strong></td>
<td><strong>1.17 Torches</strong></td>
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<tr>
<td>3</td>
<td>Hand Torches</td>
</tr>
<tr>
<td>3</td>
<td>Rubber Hand Torches</td>
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<tr>
<td>----</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>3</td>
<td>Hand Lamp</td>
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<tr>
<td>3</td>
<td>Pocket Torch</td>
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</table>

**QU 1.18.1 Measuring equipment: thermometers**

<table>
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<tr>
<th>25</th>
<th>Digital clinical thermometer</th>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>Digital thermometer</td>
</tr>
<tr>
<td></td>
<td>Forehead strip thermometer</td>
</tr>
<tr>
<td></td>
<td>Giant wall thermometer</td>
</tr>
<tr>
<td></td>
<td>Large wall thermometer</td>
</tr>
<tr>
<td></td>
<td>Liquid crystal temperature indicator sheet</td>
</tr>
<tr>
<td></td>
<td>Maximum/minimum thermometer</td>
</tr>
<tr>
<td></td>
<td>Spirit thermometer (glass stirring thermometer)</td>
</tr>
<tr>
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<td>Window thermometer</td>
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</table>

**QU 1.18.2 Measuring equipment: magnifiers and viewers**

<table>
<thead>
<tr>
<th>25</th>
<th>Aqua scope</th>
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<tbody>
<tr>
<td></td>
<td>Fresnel lens</td>
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<td></td>
<td>Flexi-magnifier</td>
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<tr>
<td></td>
<td>Hand magnifiers</td>
</tr>
<tr>
<td></td>
<td>Magnispector</td>
</tr>
<tr>
<td></td>
<td>Midispector</td>
</tr>
<tr>
<td></td>
<td>Minispector</td>
</tr>
<tr>
<td></td>
<td>Monocular microscope</td>
</tr>
<tr>
<td></td>
<td>Naturescope or bugscope</td>
</tr>
<tr>
<td></td>
<td>Nature viewers</td>
</tr>
<tr>
<td></td>
<td>Pocket lenses</td>
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<td></td>
<td>Pocket hand microscope</td>
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<td></td>
<td>Stereo microscope</td>
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<tr>
<td></td>
<td>Table-top magnifier</td>
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<td>Tripod magnifier</td>
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<tr>
<td></td>
<td>Tow-way microscope</td>
</tr>
<tr>
<td>QU</td>
<td>1.18.3 Measuring equipment : volume</td>
</tr>
<tr>
<td>-----</td>
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</tr>
<tr>
<td>100</td>
<td>• Measuring beakers</td>
</tr>
<tr>
<td></td>
<td>• Measuring cylinders</td>
</tr>
<tr>
<td></td>
<td>• Measuring jugs</td>
</tr>
<tr>
<td></td>
<td>• Measuring spoons</td>
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<td>• Syringes</td>
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<table>
<thead>
<tr>
<th>QU</th>
<th>1.18.4 Measuring equipment : weight/mass</th>
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<tbody>
<tr>
<td>10</td>
<td>• Bathroom scales</td>
</tr>
<tr>
<td></td>
<td>• Bucket balances</td>
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<td>• Electronic scales</td>
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<td>• Kitchen scales</td>
</tr>
<tr>
<td></td>
<td>• Metal masses</td>
</tr>
<tr>
<td></td>
<td>• Newton meters</td>
</tr>
<tr>
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<td>• Plastic masses</td>
</tr>
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<td>• Slotted masses</td>
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<table>
<thead>
<tr>
<th>QU</th>
<th>1.18.5 measuring equipment : time</th>
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<tr>
<td>10</td>
<td>• digital stopwatches</td>
</tr>
<tr>
<td></td>
<td>• LCD stop clock</td>
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<td></td>
<td>• Mechanical stop clock</td>
</tr>
<tr>
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<td>• Mechanical stopwatch</td>
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<tr>
<td></td>
<td>• Sand timer</td>
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<table>
<thead>
<tr>
<th>QU</th>
<th>1.18.6 Measuring equipment: Length</th>
</tr>
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<tbody>
<tr>
<td>12</td>
<td>• Calipers</td>
</tr>
<tr>
<td></td>
<td>• Height chart</td>
</tr>
<tr>
<td></td>
<td>• Height measurer</td>
</tr>
<tr>
<td></td>
<td>• Metre sticks</td>
</tr>
<tr>
<td></td>
<td>• Tape measures</td>
</tr>
<tr>
<td></td>
<td>• Trundle wheel</td>
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Section 3: Laboratory Equipment for Material  
(Kindergarten to Grade 3)

<table>
<thead>
<tr>
<th>QU</th>
<th>Themes</th>
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<tbody>
<tr>
<td></td>
<td><strong>3.1 Changing materials</strong></td>
</tr>
<tr>
<td>6</td>
<td>• building blocks</td>
</tr>
<tr>
<td>6</td>
<td>• construction kits</td>
</tr>
<tr>
<td>6</td>
<td>• train tracks, made from wood, plastic and metal</td>
</tr>
<tr>
<td>6</td>
<td>• pipe cleaners, wooden lollipop sticks, plastic and paper art straws</td>
</tr>
<tr>
<td>25</td>
<td>• collection of everyday objects made from common materials</td>
</tr>
<tr>
<td>50</td>
<td>• set of word cards, stating key vocabulary in Arabic and English</td>
</tr>
<tr>
<td>10</td>
<td>• samples of ‘unmade’ materials (e.g. plastic, wood, metal, clay)</td>
</tr>
<tr>
<td>10</td>
<td>• selection of containers of different shapes and sizes</td>
</tr>
<tr>
<td>6</td>
<td>• range of objects of similar size but different mass (e.g. apple, sponge ball, potato, hollow ball, lump of modeling clay)</td>
</tr>
<tr>
<td>25</td>
<td>• samples of shiny/dull metals, paper, wood</td>
</tr>
<tr>
<td>25</td>
<td>• materials for collage, including rough, smooth, shiny, dull, transparent and translucent materials</td>
</tr>
<tr>
<td>6</td>
<td>• opaque drawstring bags, for use as ‘feely bags’</td>
</tr>
<tr>
<td>6</td>
<td>• water tanks or large plastic bowls/buckets</td>
</tr>
<tr>
<td>13</td>
<td>• collection of toys, made from wood, metal and plastic</td>
</tr>
<tr>
<td>13</td>
<td>• collection of everyday objects made from common materials</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>10</td>
<td>• collection of teddy bears (e.g. made from fabric, wood, glass)</td>
</tr>
<tr>
<td>5</td>
<td>• paper types for sorting (e.g. shiny, greaseproof (waxed), plain, patterned, newspaper, kitchen roll, tissue paper, paper tissues, crepe paper)</td>
</tr>
<tr>
<td>5</td>
<td>• collection of objects/materials with distinctive smells (e.g. leather, books, newspapers, onions, coffee, cut grass, flowers, perfumes)</td>
</tr>
<tr>
<td>5</td>
<td>• two identical covered tubs, one filled with polystyrene pellets, one with marbles</td>
</tr>
<tr>
<td>13</td>
<td>• collection of naturally occurring materials (e.g. sheep’s wool, camel hair, twigs, sand, clay, stone, water, pebbles/stones, shells, pine cones)</td>
</tr>
<tr>
<td>6</td>
<td>• collection of synthetic materials (e.g. nylon fibers/thread, polythene, PVC and polystyrene packaging and containers, synthetic fabrics, plastic cutlery and cups, swimming goggles, plastic rulers)</td>
</tr>
<tr>
<td>6</td>
<td>• set of pictures that show the source of materials (e.g. sheep, tree, beach, ground/soil, river, factory)</td>
</tr>
<tr>
<td>6</td>
<td>• hanging masses, string, materials to test for flexibility (e.g. rulers or spoons made from plastic, metal and wood, or strips of these materials)</td>
</tr>
<tr>
<td>6</td>
<td>• torch, collection of materials to test for transparent, translucent, opaque (e.g. card, plastic, metal plates/trays)</td>
</tr>
<tr>
<td>6</td>
<td>• collection of materials to test for shiny/dull (e.g. metal and wooden spoons, pans, shiny/glossy wrapping paper, mirrors, woven or knitted items)</td>
</tr>
<tr>
<td>6</td>
<td>• plastic cups and jugs, rubber bands, collection of waterproof and absorbent materials (e.g. dishcloth, tissue paper, a paper towel, aluminum foil, newspaper, plastic from a plastic bag)</td>
</tr>
<tr>
<td>6</td>
<td>• masses, poster tube, collection of materials to test breakability/toughness (e.g. crisps, dried spaghetti, plastic straws, paper straws, wooden dowelling or pencils, rubber bands, thin metal pipes)</td>
</tr>
<tr>
<td>25</td>
<td>• collection of objects to compare for heavy and light</td>
</tr>
<tr>
<td>6</td>
<td>• weighing scales</td>
</tr>
<tr>
<td>6</td>
<td>• elastic bands, hair bobbles, foam sponges, soft rubber balls</td>
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<td></td>
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<td>---</td>
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</tr>
<tr>
<td>1</td>
<td>• ingredients for making bread.</td>
</tr>
<tr>
<td>6</td>
<td>• candle-making materials (e.g. sand, wicks, wax)</td>
</tr>
<tr>
<td></td>
<td>• freezer, disposable gloves, balloons, ice-cube trays</td>
</tr>
<tr>
<td>6</td>
<td>• selection of materials with varying flexibility (e.g. grass, straw, pine cones, twigs, thin dowelling, lollipop sticks (plastic, wooden, card), expanded polystyrene packaging pellets, plastic and paper straws, thin wire (e.g. soldering wire, copper wire), plastic cable insulation, polythene, polystyrene and paper cups, aluminum can or foil)</td>
</tr>
<tr>
<td>6</td>
<td>• washing powder</td>
</tr>
<tr>
<td>100</td>
<td>• gloves</td>
</tr>
<tr>
<td>6</td>
<td>• thermoplastics</td>
</tr>
<tr>
<td>6</td>
<td>• collection of objects made from one or two common materials (e.g. a metal spoon or pan with a wooden handle, toy cars made from metal and plastic)</td>
</tr>
<tr>
<td>6</td>
<td>• collection of personal hygiene products (e.g. toothpaste, soap, shampoo, shower gel, shaving foam, bubble bath, soap “bombs” that fizz when added to water)</td>
</tr>
<tr>
<td>6</td>
<td>• collection of items to sort by physical properties (e.g. swimming goggles, skipping ropes, hair brush)</td>
</tr>
<tr>
<td>6</td>
<td>• small collection of objects for simple crush/stretch tests (e.g. paper cups, paper tissues, drinks cans, pair of tights, plastic bottle, wooden spoon, polystyrene packaging)</td>
</tr>
<tr>
<td>6</td>
<td>• collection of objects (and pictures of objects) made from one material, such as wood or plastic.</td>
</tr>
<tr>
<td>6</td>
<td>• food colouring, dyes, icing, white modeling clay, white paint</td>
</tr>
<tr>
<td>6</td>
<td>• plastic and paper cups, Aluminum cans</td>
</tr>
<tr>
<td>6</td>
<td>• variety of tights of different thicknesses and styles</td>
</tr>
<tr>
<td>6</td>
<td>• 50, 100, 150 g masses</td>
</tr>
<tr>
<td>6</td>
<td>• packaging materials (e.g. tissue paper, newspaper, foam wrap, bubble wrap)</td>
</tr>
</tbody>
</table>
| 6 | • samples of common plastics, such as expanded
<table>
<thead>
<tr>
<th>Quantity</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>polystyrene (e.g. some food packaging trays)</td>
</tr>
<tr>
<td>6</td>
<td>• PVC (e.g. some shampoo bottles)</td>
</tr>
<tr>
<td>6</td>
<td>• polythene (e.g. milk containers)</td>
</tr>
<tr>
<td>6</td>
<td>• polystyrene (e.g. drinking cup from vending machine)</td>
</tr>
<tr>
<td>25</td>
<td>• materials to test for absorbency (e.g. plastic from a carrier bag, dusters or other cotton fabrics, paper towels/tissues, paper, nylon fabrics)</td>
</tr>
<tr>
<td>13</td>
<td>• materials to test for thermal insulation (e.g. cotton, wool, nylon)</td>
</tr>
<tr>
<td>6</td>
<td>• small drinks bottles (250–330 ml)</td>
</tr>
<tr>
<td>6</td>
<td>• range of filters (e.g. colanders, sieves, tights, tissue paper, paper towels, fishing nets, cotton wool)</td>
</tr>
<tr>
<td>6</td>
<td>• materials to make ropes (e.g. polythene bags, cling film, long grass or straw)</td>
</tr>
<tr>
<td>6</td>
<td>Collections of materials that can be sorted on various criteria:</td>
</tr>
<tr>
<td></td>
<td>Transparent / opaque</td>
</tr>
<tr>
<td></td>
<td>Natural / man-made</td>
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<tr>
<td></td>
<td>Waterproof / non-waterproof</td>
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<tr>
<td></td>
<td>Hard / soft</td>
</tr>
<tr>
<td></td>
<td>Flexible / rigid</td>
</tr>
<tr>
<td></td>
<td>Shiny / dull</td>
</tr>
<tr>
<td></td>
<td>Smooth / rough</td>
</tr>
<tr>
<td></td>
<td>Magnetic / non magnetic</td>
</tr>
<tr>
<td></td>
<td>Collection of similar objects made from different materials e.g. bowls made from metal, glass, plastic, ceramic etc.</td>
</tr>
<tr>
<td></td>
<td>Collection of different objects made from the same material e.g. wood, glass, metal, plastic.</td>
</tr>
</tbody>
</table>
### 3. Changing Materials

*(Grades 4-6)*

<table>
<thead>
<tr>
<th>QU</th>
<th>6</th>
<th>• inflatable items (e.g. balloons, arm bands, swimming rings, beach ball)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>• collection of solids, including transparent sealed tubs of various materials (e.g. rice, marbles, sugar cubes, icing sugar, sand, lentils, rice, gravel)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• water trays or tanks, water play toys (e.g. water wheels, sieves, funnels)</td>
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<tr>
<td>6</td>
<td>• samples, or pictures, of chocolate, wax, butter and ice</td>
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<td></td>
<td>• strong-smelling liquids (e.g. perfume, air freshener)</td>
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<tr>
<td>6</td>
<td>• range of containers of different ‘top’ surface area (e.g. tall vase, small bowl, plate)</td>
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<tr>
<td>6</td>
<td>• collection of metal objects (e.g. food and drinks cans (Aluminum and steel), cutlery, pencil sharpeners, watches/clocks, keys, jewellery, wheels/cogs, batteries, coins, whisk, wires/cables)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• magnets</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• pictures of metal objects (e.g. bridges, ships, trains, cars, lorries, aircraft, railway lines, tools, pipes, washing machines (and other machines), metal beams/girders, knives/scissors)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• copper wire, small hammers, soft cloths</td>
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<tr>
<td>6</td>
<td>• materials to test for electrical conductivity (e.g. plastic, wood and metal rulers, wires made from different metals, wool, string, paper, card, keys, straws, spoons made from plastic, wood and metal, rubber, hair, different fabrics)</td>
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</tr>
<tr>
<td>6.</td>
<td>• components for an electrical circuit to light a bulb (e.g. batteries, wires, crocodile clips, bulbs)</td>
<td></td>
</tr>
<tr>
<td>Quantity</td>
<td>Item Description</td>
<td></td>
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<tr>
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</tr>
<tr>
<td>6</td>
<td>• collection of coins, including those made from different metals, from the past, and from other countries</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>• an investigation planning poster that will help to identify and control experimental variables</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• simple glassware, plastic bags and boxes</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>• hand lenses</td>
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</tr>
<tr>
<td>6</td>
<td>• rulers</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• simple equipment for testing strength (e.g. the bottom part of a plastic bottle suspended from the object by string and filled with water or sand)</td>
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<tr>
<td>6</td>
<td>weighing scales</td>
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</tr>
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<td></td>
<td>• chemicals for making crystals, such as copper sulfate, alum and chrome alum</td>
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</tr>
<tr>
<td>6.</td>
<td>an investigation planning poster that will help to identify and control experimental variables</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>• 100 cm measuring cylinder</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• tared balance accurate to 0.1 g</td>
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</tr>
<tr>
<td>1</td>
<td>• video clip of oil spillage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• variety of common household foodstuffs and chemicals</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• suitable containers (e.g. jam jars) for studying the reactions</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• batteries, connecting wires, copper and zinc strips, bulbs, carbon rods</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>• video clips of firefighters putting out fires</td>
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</tr>
<tr>
<td>6</td>
<td>• burner</td>
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</tr>
<tr>
<td>6</td>
<td>• flameproof mat</td>
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<td>Qty</td>
<td>Item</td>
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<td>-----</td>
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<td></td>
</tr>
<tr>
<td>25</td>
<td>• test-tubes</td>
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</tr>
<tr>
<td>6</td>
<td>• test-tube holder</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• tripods</td>
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</tr>
<tr>
<td>6</td>
<td>• tin lid</td>
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</tr>
<tr>
<td>6</td>
<td>• candles</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• jam jars</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• safety screen</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>• variety of common substances from around the home</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>• different types of fire extinguishers</td>
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</tr>
<tr>
<td>6.</td>
<td>• smoke alarm</td>
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</tr>
<tr>
<td>6</td>
<td>• fire blanket</td>
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<tr>
<td>6</td>
<td>Thermometers</td>
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<td>Do not use mercury filled thermometers</td>
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</tr>
<tr>
<td>6</td>
<td>Source of heat and flame – candle in metal foil dish</td>
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</tr>
<tr>
<td>6</td>
<td>Materials, which change when, heated – chocolate, margarine, ice, water etc.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Small samples of materials that burn - wax, wood, paper, charcoal, wool, silk</td>
<td></td>
</tr>
<tr>
<td></td>
<td>* Not plastics</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Metal tweezers, foil pie dishes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>To hold small pieces of material to be burnt or heated</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Small plastic bowls for evaporating liquids</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Margarine tubs suitable</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Safety glasses</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Plastic beakers - various sizes</td>
<td></td>
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<tr>
<td>----</td>
<td>-------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Clean jam jars with labels removed, yogurt pots</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Household chemicals for dissolving, evaporation, reversible and non-reversible reactions work.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Salt</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Coffee</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sugar – various types</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plaster of Paris</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Washing powder</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bath salts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bath salts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Powdered chalk / limestone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vinegar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cooking oil</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lemon juice</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sand</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bicarbonate of soda</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Epsom salts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Washing soda</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flour</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Citric acid</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Scoops – various sizes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>for measuring quantities of materials</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Digital scales</td>
<td></td>
</tr>
</tbody>
</table>

Section 4: Laboratory Equipment for Earth and Space  
(Kindergarten to Grade 6)

<table>
<thead>
<tr>
<th>QU</th>
<th>Themes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Earth sciences</td>
</tr>
<tr>
<td>5</td>
<td>Rocks and Soils KIT</td>
</tr>
<tr>
<td>1</td>
<td>Erosion DVD</td>
</tr>
<tr>
<td>5</td>
<td>Weathering and soils pack</td>
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<td>5</td>
<td>Soil types pack</td>
</tr>
<tr>
<td></td>
<td>6 soil types have been conveniently dried, sieved and packed into 120 containers ready for classroom use.</td>
</tr>
<tr>
<td>5</td>
<td>Rock pack</td>
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<td>5</td>
<td>Basic Rock Set</td>
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<td>Building Stones KIT</td>
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<tr>
<td>1</td>
<td>Spotters guide to rocks and minerals</td>
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<tr>
<td>2</td>
<td>Earth Posters</td>
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<tr>
<td>6</td>
<td>soil samples from different places</td>
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**QU 4.2 Space**

<table>
<thead>
<tr>
<th>1</th>
<th>• a selection of CD ROMs on the Sun and Earth</th>
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<tbody>
<tr>
<td>25</td>
<td>• stories about the Sun and shadows (e.g. Greek myth of Icarus, Aesop’s Fable of the Sun and the Wind, <em>Peter Pan</em> by J.M. Barrie, <em>Kipper’s Snowy Day</em> by Mick Ink pen)</td>
</tr>
<tr>
<td>3</td>
<td>• posters or other images of eclipses</td>
</tr>
<tr>
<td>6</td>
<td>• globe, small doll (e.g. from dolls’ house), re-usable adhesive, torch</td>
</tr>
<tr>
<td></td>
<td>• range of funnels, plastic litre measuring jugs, range of shapes of containers (e.g. bubble bath, shampoo, lemonade bottles)</td>
</tr>
<tr>
<td>6</td>
<td>• stopcocks or stopwatches</td>
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<tr>
<td></td>
<td>• resources for a marble-run: marbles, cardboard, glue, scissors</td>
</tr>
<tr>
<td>Quantity</td>
<td>Item Description</td>
</tr>
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<td>----------</td>
<td>----------------------------------------------------------------------------------</td>
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<tr>
<td>6</td>
<td>• string, children’s modeling clay</td>
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<td></td>
<td>• a comprehensive rock collection</td>
</tr>
<tr>
<td></td>
<td>• samples of rock that can be tested by students</td>
</tr>
<tr>
<td>3</td>
<td>• investigation design poster</td>
</tr>
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<td>2</td>
<td>• map of the Middle East</td>
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<tr>
<td>25</td>
<td>• still photographs of the Sun and Moon downloaded from the Internet</td>
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<tr>
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<td>• video of the Sun and Moon downloaded from the Internet</td>
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<td>solar scope</td>
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<td>Sun and earth poster</td>
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<td>Planets activity masters</td>
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<td>Earth sun and moon kit</td>
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<td>Tellurium model</td>
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<td>Demonstrate how the earth orbits the sun and the moon orbits the earth.</td>
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<tr>
<td>1</td>
<td>ORRERY, Motorized</td>
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<td>Discover the movement of the planets with this motorized orbit model, with the</td>
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<tr>
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<td>light turned out the illuminated planets orbit the sun in a perfect and clear</td>
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<td>introduction to the solar system.</td>
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<td>Planets cube</td>
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<td>Political relief Globe</td>
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<td>Junior school Atlas</td>
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<td>Atlas Adventure Game</td>
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<td>Map of Europe primary outline maps</td>
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### Section 5: Laboratory Equipment for Physical Processes
(Kindergarten to Grade 6)

#### PHYSICAL PROCESSES

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<th>Themes</th>
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<tr>
<td>QU 5.1 Forces and movement</td>
<td>• collection of toys or objects that move</td>
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<td>• video clip showing animal movement</td>
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<td>• resources for making toy vehicle</td>
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<td>3</td>
<td>• toy cars</td>
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<td>• tape measures or rulers</td>
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<tr>
<td>6</td>
<td>• range of battery-operated toys and household appliances</td>
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<tr>
<td>6</td>
<td>• collection of magnets and materials that are magnetic and non-magnetic</td>
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<tr>
<td>6</td>
<td>• collection of springs and everyday objects containing springs (e.g. toys)</td>
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<tr>
<td>6</td>
<td>• a collection of small pieces of various materials to be tested for magnetism</td>
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<td>• force meters of varying sizes</td>
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<td>• tape measure</td>
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<td>Meter rules</td>
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<td>Extension springs</td>
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<td>Roller ball</td>
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<td>Projectile Launcher</td>
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<td>Mini Ramps Surface</td>
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<td>The Ramp</td>
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<td>the Ramps Surfaces Pack</td>
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<td>Ramp vehicle and wheels</td>
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<td>Action –reaction platforms</td>
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<td>Multi –balance boards</td>
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<td>Science focus 4 forces in action</td>
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<td>Bridge kit</td>
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<td>Budget pulley set</td>
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<td>Pulley block set</td>
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<td>Constructo straws</td>
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<td>Polystyrene spheres</td>
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<td>Jax joiners</td>
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<td>Heat – chart</td>
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<td>Wind generator</td>
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<td>Hot air balloon kit</td>
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</table>

### 5.2 Matter and energy

- thermometers
- temperature sensor
- wide-necked bottles
- cotton thread, wool, tubing, metal tray
- wooden, plastic and metal spoons, metal saucepan with wooden or plastic handle
<p>| 6 | • variety of materials on which to investigate the effect of different kinds of forces (e.g. paper, card, foam, paper clip, different plastics, modeling |
| 6 | clay, string, air (in a syringe), wood |
| QU | <strong>5.3 Waves, light and sound</strong> |
| 6 | • collection of toys that make different sounds |
| 6 | • collection of everyday objects that make different sounds |
| 10 | • collection of musical instruments |
| 25 | • collection of pictures of animal ears |
| 10 | • light sources (e.g. torches, overhead projector) |
| 10 | • collection of opaque, transparent and translucent objects and materials |
| 6 | • collection of periscopes and kaleidoscopes |
| 6 | • magnifying lenses |
| 6 | • cardboard tubes |
| 6 | • sticky tape |
| 6 | • glue |
| 6 | • card holders |
| 6 | • doilies |
| 6 | • colored cellophane |
| 6 | • art straws |
| 6 | • wooden dowelling |</p>
<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
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<tbody>
<tr>
<td>25</td>
<td>collection of everyday objects</td>
</tr>
<tr>
<td>25</td>
<td>collection of shiny and dull objects</td>
</tr>
<tr>
<td>6</td>
<td>shoe box with a lid and a peep hole at one end</td>
</tr>
<tr>
<td>1</td>
<td>stethoscope</td>
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<tr>
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<td>magnifying lenses</td>
</tr>
<tr>
<td>1</td>
<td>computer microscopes</td>
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<tr>
<td>6</td>
<td>buzzers/ticking clocks</td>
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<tr>
<td>6</td>
<td>foam sheeting, bubble wrap, woollen fabrics, newspaper, furry fabrics</td>
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<td>Light A4 pack</td>
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<td>Light chart</td>
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<td>Optics chart</td>
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<td>Light boxes</td>
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<td>Light and shadows kit</td>
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<td>Colour disc</td>
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<td>Light box</td>
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<td>Large acrylic blocks</td>
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<td>Flat glass mirror</td>
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<td>Fifex colour mixer tm apparatus</td>
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<td><strong>QU</strong></td>
<td><strong>5.4 Electricity</strong></td>
</tr>
<tr>
<td>13</td>
<td>• collection of toys</td>
</tr>
<tr>
<td>13</td>
<td>• collection of clothes</td>
</tr>
<tr>
<td>13</td>
<td>• batteries for circuits, collection of different batteries</td>
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<tr>
<td>6</td>
<td>• bulbs and holders, buzzers, wires, crocodile clips, motors</td>
</tr>
<tr>
<td>1</td>
<td>• video clip showing dangers of mains electricity</td>
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<tr>
<td>6</td>
<td>• materials for insulation (e.g. bubble wrap, aluminum foil,</td>
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<td>Quantity</td>
<td>Description</td>
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<tr>
<td>----------</td>
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</tr>
<tr>
<td>25</td>
<td>Different kinds of common plastics in the form of sheet or rods, rulers, combs, expanded polystyrene food containers</td>
</tr>
<tr>
<td>100</td>
<td>Balloons</td>
</tr>
<tr>
<td>6</td>
<td>A variety of electrical components (e.g. batteries, bulbs, a bell or buzzer)</td>
</tr>
<tr>
<td>6</td>
<td>Pieces of springy metal, insulated wire, pieces of wood, nails</td>
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<tr>
<td>6</td>
<td>Simple tools (e.g. pliers, hammers)</td>
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<tr>
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<td>Common electrical appliances (e.g. a torch, a radio, a kettle, an iron)</td>
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<td>Elementary electricity kit</td>
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<td>Electricity kit storage box</td>
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<td>Primary Electricity kit</td>
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<td>6</td>
<td>Bulb holder</td>
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<tr>
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<td>Rheostat (variable resistor)</td>
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<td>Push switch</td>
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<td>Changeover switch</td>
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<td>Universal clip</td>
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<td>Electric bell</td>
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