# Inquiry Project: Grade 5 Curriculum Materials Kit List
(assume class of 24 students in 6 groups)

<table>
<thead>
<tr>
<th>Qty</th>
<th>Item</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>plastic syringes</td>
<td>1 ml plastic syringes</td>
<td>No drop-count graduations</td>
</tr>
<tr>
<td>1 lb.</td>
<td>kosher salt</td>
<td>Kosher salt</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>magnifiers</td>
<td>plastic magnifier; approx 11cm long; 2 magnifying areas (3X, 6X)</td>
<td>Sargent-Welch economy dual magnifier</td>
</tr>
<tr>
<td>6</td>
<td>digital scales</td>
<td>Digital scales</td>
<td>Escali Primo digital multifunctional scale - model P115C</td>
</tr>
<tr>
<td>1</td>
<td>balance</td>
<td>Ohaus School Balance (SB 1200)</td>
<td>store.ohaus.com</td>
</tr>
<tr>
<td>1</td>
<td>balloon pump</td>
<td>Balloon pump</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>balloons</td>
<td>16 inch balloons</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>vortex bottle connectors</td>
<td>Vortex bottle connectors with opening enlarged to 7/8 in. diameter</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1-liter plastic bottle</td>
<td>1-liter plastic bottles</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2-liter plastic bottles</td>
<td>2-liter plastic bottles</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>spray mister</td>
<td>Spray mister (2-ounce clear plastic pump bottle that creates a very fine mist)</td>
<td><a href="http://www.abundanthealth4u.com">http://www.abundanthealth4u.com</a> (product number 9244A)</td>
</tr>
<tr>
<td>48</td>
<td>clear plastic bottles with snap-on covers</td>
<td>50 dram (184.8 ML’S) Thornton clear plastic bottles with snap-on covers</td>
<td>Thornton Plastic Co; <a href="http://www.thorntonplastics.com">www.thorntonplastics.com</a> 50 dram clear plastic bottles with snap-on covers</td>
</tr>
<tr>
<td>12</td>
<td>100-ml graduated cylinder</td>
<td>100-ml plastic graduated cylinder</td>
<td>Kartell 100ml graduated cylinder (code 1079) is recommended</td>
</tr>
<tr>
<td>2.5 liters</td>
<td>fine sand</td>
<td>Fine sand (washed)</td>
<td></td>
</tr>
<tr>
<td>2.5 liters</td>
<td>gravel</td>
<td>Gravel</td>
<td></td>
</tr>
<tr>
<td>½ liter</td>
<td>small rounded stones</td>
<td>Small (½ – ⅞ inch) rounded rocks</td>
<td></td>
</tr>
<tr>
<td>6 oz bottle</td>
<td>glycerine</td>
<td>One 6oz. bottle of glycerine</td>
<td></td>
</tr>
<tr>
<td>1 small bottle</td>
<td>Joy dish detergent</td>
<td>Joy (liquid dish detergent)</td>
<td></td>
</tr>
<tr>
<td>Quantity</td>
<td>Item Description</td>
<td>Specifications</td>
<td>Notes</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>14</td>
<td>sandwich boxes</td>
<td>Sandwich boxes with covers; volume approx 3 cups</td>
<td>Approx. dimensions, transparency, and lid are important. Cover needs tight seal, to prevent evaporation of water</td>
</tr>
<tr>
<td>6</td>
<td>plastic trays</td>
<td>Red or black plastic trays (10 in. x 12.5 in.)</td>
<td></td>
</tr>
<tr>
<td>1 bottle</td>
<td>blue food coloring</td>
<td>Blue food coloring (tiny plastic bottle)</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>plastic cups</td>
<td>12-oz. clear plastic cups</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>plastic water pitcher</td>
<td>Plastic water pitcher (approx. 2 quarts)</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>syringes without needles</td>
<td>Temuro 10cc Luer Lock Tip Syringe without Needle, Graduations: 0.2cc</td>
<td><a href="http://www.terumotmp.com">www.terumotmp.com</a> product code: SS-10L</td>
</tr>
<tr>
<td>10 pieces</td>
<td>caps for syringes</td>
<td>Caps for the Luer Lok Tip Syringes (1 packet of 10)</td>
<td>Available from McMaster-Carr: <a href="http://www.mcmaster.com">www.mcmaster.com</a> Part # 51525K372 Plastic Quick-Turn (Luer Lok) Tube Couplings (Caps, Female)</td>
</tr>
<tr>
<td>20 ft.</td>
<td>pvc tubing</td>
<td>Clear, flexible PVC tubing 1/8(^{th}) in. ID; 1/4 in. OD; 1/16(^{th}) in. wall thickness</td>
<td>Available from McMaster-Carr <a href="http://www.mcmaster.com">www.mcmaster.com</a> Part # 5233K52 Masterkleer PVC Tubing</td>
</tr>
<tr>
<td>3</td>
<td>aluminum reflector lamps</td>
<td>Aluminum-reflector type work lights (8-1/2-inch diam; 100-watt bulb capacity)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>100-watt bulbs</td>
<td>100-watt bulbs (Clear)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>½ in. mini ice cube tray</td>
<td>Mini Ice cube tray (Holds 90 ½-inch cubes per tray)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>bases for 2-bottle systems</td>
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<td>Specifications provided as separate document</td>
</tr>
<tr>
<td>2</td>
<td>1 gal. bucket</td>
<td>Plastic 1-gallon bucket</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>plastic spoons</td>
<td>Heavy-duty plastic spoons</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>plastic centimeter cubes</td>
<td>Plastic centimeter cubes (flat sides; not interlocking type)</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>black rubber stopper</td>
<td>Black rubber stopper, 1-hole, #3</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>conical paper cups</td>
<td>4-oz conical paper cups</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>8-oz. plastic bottles with caps</td>
<td>8-oz. clear plastic bottles with screw-caps diam. Approx. 1-7/8 in. x 6-3/4 in. tall</td>
<td></td>
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Supplies from the classroom:

- 12 index cards
- paper towels
- masking tape
- 6 rubber bands
- fine-tip permanent markers or pens
- extension cords as needed

Access to a freezer, copier, hot/cold water source, interactive whiteboard or flip chart, and a computer with project or interactive whiteboard

Refill/Replacement kit:

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