

## Phizzi Pod – example contents for primary physics experiments (provided by Dr Jenny Watson)

<p><b><u>D1 - Pots pens spoons :</u></b>            2 x sharpie pens            3 x 3ml pipettes            6 x teaspoons            15 x plastic glasses            6 x plastic milk bottle tops</p>	<p><b><u>D2 - Balloons:</u></b>            Normal balloons            Coarse-ground pepper            PVC square            Plastic bag strips            Rocket balloons            5 x bulldog clips            2 x punch balloons</p>	<p><b><u>D3 - Springy &amp; bouncy:</u></b>            10 x springy energy toys            10 x bouncy balls            6 x plastic balls</p>	<p><b><u>D4 - Cars, parachutes &amp; magic sand:</u></b>            10 x tiny toy cars            6 x tiny pull-back toy cars            6 x parachute party toys</p>	<p><b><u>D5 - Light, sound &amp; heat</u></b>            6 x tea lights            Match box            2 x LED torches            2 x mini slinkies &amp; string</p>	<p><b><u>D6 – Till roll, bin bags &amp; measuring tapes</u></b></p>
<p><b><u>C1 - Pipettes &amp; pots</u></b>            3x 3ml pipettes            4 x sample bottles w. lids            6 x plastic milk bottle tops</p>	<p><b><u>C2 - Cubes/balls of materials:</u></b>            6 x wooden cubes            Packing noodles (corn)            6 x polystyrene cubes            6 x corks            6 x Steel marbles</p>	<p><b><u>C3 - Balls &amp; marbles:</u></b>            6 x ping pong balls            10 x glass marbles            6 x large glass marbles</p>	<p><b><u>C4 - Magnets:</u></b>            6 x bar magnets            6 x fridge magnets            1 x pull-apart magnet            Paper clips            1p pieces            Dismantled motor            1 x strong magnet</p>	<p><b><u>C5 - Chalk &amp; post-its</u></b>            White and coloured chalks            Post-it pads (incl. one small)</p>	<p><b><u>C6 - Space!</u></b>            Inflatable Earth            Golf ball moon            Wooden Tim Peake toy            Cake decorations</p>
<p><b><u>B1 – Petri dishes:</u></b>            6 petri dishes &amp; lids</p>	<p><b><u>B2 - Tape &amp; string:</u></b>            2 x cotton thread            Electrical tape            Rubber bands            Sellotape            Ball of string</p>	<p><b><u>B3 - Sugar &amp; salt:</u></b>            Sugar cubes            Salt            Granulated sugar            8 x small plastic glasses</p>	<p><b><u>B4 – UV sensitive beads:</u></b>            Mission Starlight colour charts            UV sensitive beads            Covering materials (foil, cotton, polythene, milk bottle)</p>	<p><b><u>B5 – Timers:</u></b>            6 x stopwatches</p>	<p><b><u>B6 - Magic snow &amp; masking tape:</u></b></p>
<p><b><u>A1 – syringes &amp; bags:</u></b>            6 x 10ml syringes            100ml plastic beaker            Bag of small closable bags</p>	<p><b><u>A2 - Modelling materials:</u></b>            Playdough            Plasticine            Blu-tac            9V Battery with wires            LEDS</p>	<p><b><u>A3 - Craft materials:</u></b>            Pipe cleaners            Pompom balls            Cotton-spun balls</p>	<p><b><u>A4 - Glue &amp; games:</u></b>            Copydex pot            Split pins            6 x dice &amp; board game pieces            Hospital pill cups</p>	<p><b><u>A5 - Kitchen science:</u></b>            Flour            Clear vinegar            Alka seltzer tablets            Raisins            Tea-bags            Plastic gloves</p>	<p><b><u>A6 - More kitchen science:</u></b>            Food colouring            Vaseline lip tin            A 3-minute sand timer            Mentos</p>

# Phizzi Pod: example experiments & activities (provided by Dr Jenny Watson)

## EYFS/KS1 enquiries:

**Comparing materials:** Using cubes/balls of materials, pipettes, small plastic glasses (water)

**Sugar bridges:** Sugar cubes, petri dishes, food colouring & small plastic glasses, timers

**Waterproof materials:** Materials (with UV beads), petri dishes, food colouring, sugar cubes, timers

**Floating & sinking:** Various balls

**Pepper beards:** Balloons, Coarse-ground pepper, petri dishes

**Investigating magnets:** various magnets, pennies, paper clips

**Cars on different surfaces:** Pull-back toy cars, measuring tapes

## Lower KS2 enquiries:

**Parachute drop:** Parachutes, plasticine, timers

**How high does a bouncy ball bounce:** Bouncy balls, measuring tapes

**Rocket balloon races:** Rocket balloons, bulldog clips, string, short straws, Sellotape

**Playground shadows:** Chalks, measuring tapes

**Asking better questions:** Lots of different balls, Post-it notes

**Magnets & pennies:** Magnets & pennies

**Which magnet is the strongest:** Magnets, paperclips, measuring tapes

**Slinky spring sounds:** Slinky springs with strings attached (like Marvin & Milo coat hangers)

**Coke & Mentos:** ALSO NEEDS COKE BOTTLE

## Upper KS2 enquiries:

**Squishy circuits:** Playdough, plasticine, LEDs, 9V battery with wires

**Electrostatics:** Balloons, plastic strip, PVC square, pepper/hole punch dots

**Till roll solar system:** Till roll, measuring tape

**Relative sizes of planets:** Cake decorations, punch balloon, small balloon, various balls

**Mission Starlight UV beads:** UV sensitive beads, Mission starlight colour charts, covering materials

**Craters investigation:** Various balls, measuring tapes – NEEDS TAKE-AWAY TRAYS & FLOUR/SAND

**Magic snow:** Magic snow, teaspoon, NEEDS LARGER PLASTIC CUPS AND PAPER TOWELS

**Floating & sinking raisins:** Raisins, NEEDS LEMONADE

**Water balloon & candle:** Balloon, tealight, water

**Magic sand:** Water NEEDS TALL PLASTIC CUP