


Summer 2 – Science Tasks

Please complete 1 task on a weekly basis. You can complete these in any order you wish.

<p>Research a famous scientist and write a fact sheet about them.</p>	<p>Have a go at making a shadow puppet using card/paper and a straw. Investigate how the shadow can change, thinking about the distance between the puppet at the light. Record your results using a labelled diagram.</p>	<p>Create a D IY marble run using a paper plate.</p> 
<p>Create a bouncy ball using an egg.</p> <p>Step 1 – Get a raw egg and carefully place it into a glass or jar</p> <p>Step 2 – Fill the glass with white vinegar until the egg is completely submerged</p> <p>Step 3 – Leave the egg in the glass for 1-3 days. Each day check back on the egg. When the egg has started to become translucent you will know it is ready.</p> <p>Step 4 – Remove the egg from the glass and rinse it under some tap water. While rinsing the egg gently rub the outside of the egg and the white film will come off leaving you will a translucent egg.</p> <p>Step 5 – Examine the egg. You'll notice that is feels rubbery (like a bouncy ball). Then lift the egg 1-2 inches in the air, let go and watch it bounce.</p>	<p><u>Make a home-made lava lamp.</u></p> <ul style="list-style-type: none"> • Fill the bottom of the jar with water to about 1/4 full. • Next add vegetable oil. Fill the bottle leaving about an inch at the top. In a mason jar I fill to the lip. • Next add a few drops of food colouring. This is a fascinating step watching as the food colouring drops fall through the oil and rest on top of the water before slowly starting to mix with the water. • Now it's time for the magic! Add a teaspoon of Alka Seltzer (if yours are in tablet form, break the tablets into quarters and add a quarter tablet). • After a few minutes the reaction will settle down. To start it again, simply add more Alka Seltzer 	<p>Watch your heartbeat.</p> <p>Place a cocktail stick into a marshmallow. Do not prod it all the way through, just half way. Put the marshmallow onto your wrist and watch your heartbeat tick away. Practice exercising and compare the differences between your resting and non-resting heartbeat. What do you notice?</p>

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