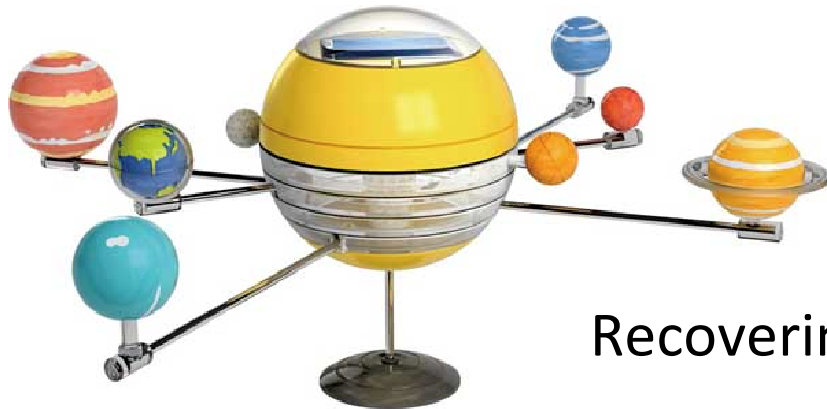


## Part A – The physical world

### Solar model

- I built a solar powered model of all the planets orbiting the sun and spinning around by the sun.
- The Earth is the 3<sup>rd</sup> planet from the sun orbiting at an average distance of 150,000,000 km .



### Artificial rainbow

- I split a beam of white light by taking one of my crystal medals and facing the triangular part down onto a white surface.

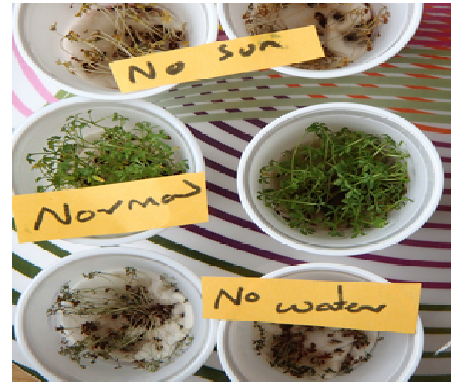


### Recovering a dissolved substance from water

- In this experiment I learned how to recover salt from a water solution
- First I got a pan and put water and salt in it. Then I put the heat on. Next I watched while the water evaporated.
- In the end, there were only salt crystals in the pan.

# Growing Cress

- In this experiment I investigated what happens when there is no light or water when growing cress.
- When it has water, light and oxygen the cress looks green, it looks healthy and grows up very tall.
- When no water reaches the plant, it goes all weedy and goes pale and yellow in colour.
- If there is no sun, the cress turns the colour yellow. It grows okay but not as many seeds sprout out.



# Growing peas

- In this experiment I investigated what happens when the roots and shoots of a pea plant are visible and then turned upside down.
- I found that the plant turns around and then grows up towards the sun.



# Growing crystals

- In this experiment I learned how to grow crystals. First I got a jar and put water, LOADS of sugar and food colouring in it. Then I placed a string 3cm long dangling into the jar so it didn't touch the sides. Next I left the water to evaporate for a couple of weeks.
- In the end, there were crystals on the end of the string and in the jar.

