**P5 E2K**

**Capillary forces**

***Materials required:***

* 3 empty beakers
* 2 cups water (250ml)
* 2 colors of food coloring, such as yellow and blue
* 2 paper towels

***Experiment:***

* First, fill glasses 1 and 3 most of the way up with water and very little water in glass 2.
* Next, add four drops of yellow color food coloring to glass 1and four drops of the blue color food coloring to glass 3.
* Orient each of your paper towels vertically and fold them in half twice, so you have two long, skinny paper towels.
* Put one end in the colored water and one end in the empty glass.
* Repeat this for the other paper towel and colored water.
* Watch the glasses and see what happens.

***Observations:***

What happened to the empty glass as time passes?

What happens to the paper towels?

How did the water climb up the towels?

**Planning the Experiment**

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| Aim of the experiment: |
| What is the independent variable (changed variable) of the experiment? |
| What is the dependent variable (measured results) of the experiment? |
| How do you measure the dependent variable? |
| Write down how would your group modify the experiment protocol for this experiment: |
| What have you done to ensure fair test? What are the variables that are kept constant? |
| Our results and observations:  (You may draw a table to record your results. Decide if you want to measure the results qualitatively or quantitatively) |
| What can we conclude from our experimental results? |
| After carrying out the experiment do you think there is anything that you have done that could lead to inaccurate results obtained? If so, suggest what you can do to improve the accuracy of your results? |