

# Past Science Fair Projects

Here are some sample topics which other students have completed in the past years to give you an idea of what kind of topics you can choose for the science fair.

Feel free to create your own original topic and check with your teacher to see if it is appropriate for your course and grade level.

## **Science 10**

- Can liquids with different densities have a mirage?
- How much air pressure is required to break a ruler?
- Which kind of water distillation is the best?
- At what temperature will ice melt the fastest?
- How can we keep cut flowers fresh?
- Can the colour of a plant change?
- At which pH can flowers grow best?

## **Chemistry 11**

- How can you prevent onions from making you cry?
- How does the mass of  $\text{H}_2\text{O}_2$  affect the time fluorescent will glow for?
- How does temperature affect the speed of molecules? (Tested by observing how fast/much ink will spread in water of different temperatures)
- What is the best way to store a carbonated drink to keep its carbonation?
- How is smell affected when different chemicals are used to make perfume?
- How does temperature affect the light emission of luminol?
- Which exothermic reaction would be best for cooking food?
- How to identify sugar, aspirin, salt, and cornstarch using their chemical properties?
- Is sodium bicarbonate an acid or a base? Will it react with acid or base to produce  $\text{CO}_2$ ?
- How does the concentration of  $\text{NaCl}$  affect the boiling point of water?
- Does the pH of soap change with its purity?
- Which metal is most combustible with air?
- Does the type of milk affect the production of a  $\text{CaCO}_3$  precipitate when mixed with Coca-Cola?

## **Chemistry 12**

- Does pressure affect the amount of  $\text{CO}_2$  dissolved in Coca-Cola?
- Does concentration affect the size of borax crystals?
- Which fruits contain the most sugar?
- Which reactants will create most endothermic reaction?
- Does the pH of solution affect the growth of crystal babies?