

*Project to be completed by **Tuesday 13th November 2018.***

Science Fair Project

Your project is to design an experiment for our science fair. You will be displaying your projects in the classroom for other students to observe so be sure to put forth your best effort!

Your project must follow the scientific method outlined below: This will be the written component of your project that visitors will read as they pass by your exhibit. You can piece this information together on a large poster page.

- 1) **Title** (Be creative!)
- 2) **Question:** What is the problem you need to solve? What are you trying to find out?
- 3) **Hypothesis:** This is where you state what you think the answer to your question will be. This is an educated guess.
- 4) **Materials:** List all the supplies you will need to carry out your experiment.
- 5) **Procedure:** List step-by-step instructions describing how you will perform your experiment.
- 6) **Results:** Record your observations and list everything that happened during the experiment. You will also need some type of visual display such as a chart, table, graph, photographs, etc. to organize your data.
- 7) **Conclusion:** The answer (if you found one) to your original question. In your conclusion, explain your results.

You must also include any charts, graphs, pictures or other record keeping that you used. Your project can be typed or handwritten and glued onto the poster. Be sure to put your information on the poster in the correct order.

Be sure to save everything that you used for your project. You will be setting it up as part of your display for the day of the fair.

Science Fair Project Ideas (or create your own title)

- How do different types of music affect pulse?
- Show a group of different pictures for one minute to males and females and see which gender can recall the most pictures.
- Take 5 different samples of Madeira cake. Colour each sample a different colour with food colouring. Have people guess what flavour they are eating to see if the appearance of cake affects its taste.
- Which brand of dish detergent lasts the longest?
- On which food does fungus grow best?
- Which laundry detergent works best on stains?
- Which brand of cereal gets soggiest in milk most quickly?
- Do new tennis balls bounce higher than old ones?
- Can the colour of roof tiles affect the temperature inside? (Use different coloured tiles and boxes to simulate a house)
- Does the weight of a pendulum have an effect on its speed? (use washers to change weight)
- Will an iron nail rust faster with or without bacteria? (sterilise one nail...place in jars of water)
- Which vegetables make the best dye? (Boil in a cup of water and see their effect on cloth)
- Does the design of a bridge affect the amount of weight it can hold? (make 3 bridges out of toothpicks and hang weights from each)
- Does the amount of pressure in a balloon affect its propulsion? (blow balloons up with different amounts of air, put a straw on a string and tape the string to the wall and measure)
- Draw the evolution of an animal over time.
- Does temperature affect how mould grows?
- Research a health topic.
- Can aspirin prolong the life of cut flowers?
- What is the effect of music on learning?
- What is the effect of light on mood?
- How do vocal warm ups affect how long you can hold a note?

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- How does the brand of crayon affect the time it takes to melt?
- Will laundry detergent affect plant growth?
- Does Miracle Grow affect the way a plant grows?
- How does salt affect how fast ice will melt in a cup of water?
How do different styles of ramps affect how far a toy car will travel?
- How does the tail affect the flight of a kite?
- How are rainbows formed?
- Make a homemade pinhole camera.
- Construct a homemade periscope and use it to explain light reflection.
- Does salt water affect buoyancy?
- How does temperature affect the growth of crystals?
- Which wrapping would keep sliced apples the longest in a refrigerator—foil, wax paper, plastic wrap or bags?
- Does salt affect the boiling point of water?
- Demonstrate how a simple machine works.
- Which paper airplane will fly the farthest?
- Compare the strength of different brands of paper towels.
- What are the effects of gravity on seed sprouting?
- Does seed size affect germination rates?
- How much weight can a group of balloons lift?
- What materials are the best insulators?
- How does surface area affect the evaporation rate of liquid?

Note:

- Children can work individually, in pairs or in groups of 4.
- Experiments need to be undertaken at home with the supervision and help of parents.
- Children will be given a little time in school over the final two weeks to develop the written part of the project.
- Teachers will provide children with large display poster paper.

Science Fair will take place during Science Week (12-19 November 2017).

All projects must be submitted on or before Monday 13th November 2017.

Some Useful Websites:

<http://www.education.com>

<http://www.sciencebuddies.org>

<http://www.sciencefair-projects.org/>

Also check out the World Book Online (available through the Scoilnet website).

