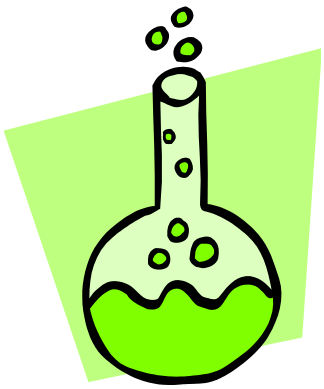
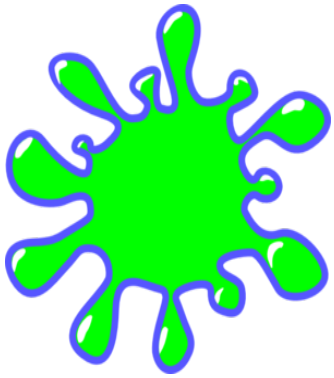
Bellevue Christian SCHOOL

Creation Celebration

Science Fair





2015

SCIENCE PROJECT

Project Ideas

TOPICS…

Here are some subject areas:

- Natural Science: water, light, earth movement, solar system, moon, animals, habitats
- Geography and Travel: migrating birds, flash floods, survey of mountain peaks
- Arts: origami, carpentry, special effects, perspective
- Animals: dogs, fish, cats
- Social studies: Famous WA people, Lewis and Clark, Great Wall of China
- Biblical: map Paul's journeys; Biblical foods; Weights, Measures and Money from Biblical Times
- Creation: gemstones, orchids, chocolate, root beer
- Economy and Money: money, metals, Boeing, the cost of going to a movie in 2020

EXAMPLE PROJECTS BY GRADE LEVEL:

KINDERGARTEN

Wood and Paper

How do you make paper?
Does the type of paper affect how far a paper airplane flies?
Which wood absorbs paint the best?
Are more expensive paper towels better at absorbing water?

Animals

Do Goldfish like certain types of fish food more?
Can you encourage an isopod to move faster?
Which is stronger- land or water snails?

Fabric

What type of fabric absorbs water the best?
What type of fabric has the most wrinkles after washing?
What type of fabric is most stain resistant?

FIRST GRADE

Balance and Motion

Do tricycles or bicycles move faster?
How do objects float or move in water?
Does a pendulum swing more if it is heavier or longer?

New Plants

What type of soil is best for growing a plant?
Does more water help new plants grow faster?
What is the effect of salt water on plant growth?

Solids and Liquids

What types of liquids evaporate fastest? (oil, milk, water, soda, etc.)
What type of detergent removes grease or dirt the best?
What solid can dissolve most in water—sugar, salt or pepper?

SECOND GRADE

Air and Weather

Is hot or cold air lighter?
Will more air inside a basketball make it bounce higher?
Which weather station gives the most accurate forecast?

Pebbles, Sand and Silt

Which clay is softest? Which clay is hardest?
Do expensive soil types have more ingredients?
Does sand or dirt get warmer more quickly?

Insects

Does the color of its surroundings affect an insect's eating habits?
Which insect can pull more of its weight?
Does heat and light attract insects?

THIRD GRADE

Earth Materials

What are the hardest types of rocks?
Are salt or crystals heavier?
Do crystals grow better in warmer temperatures?

Human Body

Do girls or boys have different resting pulse rates?
Can your muscles lift or pull more weight when they are warmed up?

FOURTH GRADE

Structure of Life

What foods do crayfish or land snails prefer?
Do crayfish or land snails choose their habitat by location or randomly?
Does the temperature of the water affect the growth of hydroponic plants?

Water

Do different amounts of salt or sugar affect how fast the water evaporates?
Does an ice cube melt faster in water or air?
What kind of material creates stronger temporary magnets?

Magnetism and Electricity

Does the number of turns of wire in an electromagnet affect its strength?
Does temperature affect the strength of a magnet?
What kind of material creates stronger temporary magnets?

FIFTH GRADE

Environments

Does fungus grow faster in a warm and wet environment or a cold and wet one?
Does more salt in the water affect the growth of plants?
What household cleaner is the least harmful to the environment?

Landforms

What happens when the plates below the Earth move?
Does the slope angle affect the rate of erosion or the amount of eroded material?
How does elevation affect the weather?

Mixture and Solutions

Does the temperature affect how much salt/sugar dissolves in water?
How does density affect the solubility of substances?
Are certain brands of detergent more effective at removing dirt?

SIXTH GRADE

Earth Science

What causes tides?
Does temperature have anything to do with the inflation of a balloon, when blown to its maximum size?

Engineering

While designing a skyscraper, what are the points to take into consideration?
How does an FM radio work?
What are common problems civil engineers have to solve?
Propeller pitch versus an airplane thrust

Chemistry

Which are the cooking methods that prevent loss of vitamin C to the minimum?
What are the pH levels in various soda drinks?
Does the color of carbonated water change a person's perception of its taste?
Can 6th Graders perceive differences in the brands of soda drinks?

Environmental Science

What is the reason behind coral reefs dying?
What is the effect of acid rains on biomass of radishes?
Do solar flares have a harmful effect on health?
What are the ways to reduce air pollution caused by cars?
What do you understand by light pollution?

ART

How do you design and make 3-D art?
What are the best floral designs? What flowers work best for floral designs?
How does Digital video and audio production work?
How does a camera work?
What is best setting on a camera for photography?

INTERNET SEARCH…

You can look ideas up in the library or have a parent guide you to an internet site such as:

Bill Nye the Science Guy: http://www.billnye.com/for-kids-teachers/home-demos/

Science made Simple: http://sciencemadesimple.com

Education.com: http://www.education.com/science-fair/

Science Buddies: http://www.sciencebuddies.org/

About.com: http://chemistry.about.com/od/sciencefairproject

Home Science Tools: http://www.hometrainingtools.com/early-elementary-science-projects/c/1083/

PBS, Zoom!: http://pbskids.org/zoom/activities/sci/

The Science Explorer: http://www.exploratorium.edu/science_explorer/

Cool Science Projects: http://www.cool-science-projects.com/elementaryScienceProjects.html

BOOKS Available in the Three Points LIBRARY:

50 nifty super science fair projects by Jill Smollinski

101 great science experiments by Neil Ardley

101 nature experiments by David Burnie

175 amazing nature experiments by Rosie Harlow

175 more science experiments to amuse and amaze your friends: experiments! Tricks! Things to make! by Terry Cash

175 science experiments to amuse and amaze your friends: experiments, tricks, things to make by Brenda Walpole

Air by Bonita Searle- Barnes

Air and Flight by Jon Richards

Bill Nye the science guy's big blast of science by Bill Nye

Everyday science explained by Curt Suplee

Experiments with solids, liquids, and gases by Salvatore Tocci

How nature works by David Burnie

How science works by Judith Hann

Let's experiment with science by Jack Challoner

Light by Bonita Searle- Barnes

BOOKS Available in the Three Points LIBRARY continued

Magical science: magic tricks for young scientists by Eric Ladizinsky

Materials by Graham Peacock

Science crafts for kids: 50 fantastic things to invent and create by Gwen Diehn

See for yourself: more than 100 experiments for science fairs and projects by Vicki Cobb

Sound by Bonita Searle- Barnes

Silly science: strange and startling projects to amaze your family and friends by Shar Levine

Science mini-mysteries by Sandra Markle

Science secrets by Robyn Supraner

The everything kids' science experiments book: boil ice, float water, measure gravity—challenge the world around you! by Tom Robinson

The kids' science book: creative experiences for hands-on fun by Robert Hirschfeld

The Magic School Bus and the science fair expedition by Joanna Cole

The science book for girls and other intelligent beings by Valerie Wyatt

The Usborne big book of experiments -Usborne

Water by Bonita Searle- Barnes

Other BOOKS:

Hands-On Life Science Activities For Grades K-6 (J-B Ed: Hands On) by Marvin N. Tolman Ed.D.

Janice VanCleave's A+ Science Fair Projects by Janice VanCleave

The Everything Kids' Science Experiments Book: Boil Ice, Float Water, Measure Gravity- Challenge the World Around by Tom Robinson

Naked Eggs and Flying Potatoes: Unforgettable Experiments That Make Science Fun by Steve Spangler

Science Arts: Discovering Science Through Art Experiences (Bright Ideas for Learning) by MaryAnn F. Kohl and Jean Potter

Soda Bottle Science: 25 Easy, Hands-on Activities That Teach Key Concepts in Physical, Earth, and Life Sciences-and... by Steve Tomecek