

Stafford Primary School Newsletter

WEST LINN-WILSONVILLE SCHOOL DISTRICT
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January 18, 2017

DARLING'S DETAILS



The West Linn Science Symposium will be February 28th. This year we will NOT have a separate Stafford science fair, rather all students that would like to do an inquiry project will share their learning with judges and other students across the WLWW School District at the district science fair at West Linn High School. Attached is all of the parent information and entry forms. In May we will participate in a week of STEM activities to culminate our year of science education and exploration. Classrooms will showcase and share their learning with our Stafford community and we will have a Family STEM Night on May 25th for families to come see our exceptional student work and perform hands on challenges with their kids.



OBOB battles are coming soon! I will send out a schedule by the end of next week to all coaches and a Sign Up Genius link for parents to volunteer as moderators. All third grade OBOB teams are invited to the library for lunch on Tuesday January 24th. I can explain the battle process to them and answer any questions at that time.



No need to wait for library day to check out a new book, or worry about lost books- You can access tons of new books online and download them to read at home! Log on to Overdrive and use your student email and P+ID number. You can find the link on the Stafford Homepage or here:

<https://wlwwor.libraryreserve.com/10/45/en/SignIn.htm?url=Default.htm>

Messages From The Office

Stafford Preschool Is Here!!!

The WLWV Early Childhood Program, which began in 1995, is expanding to include even more schools in the coming school year! We are thrilled that we will have our own **preschool at Stafford** starting in the 2017-18 school year for four-year-olds with class meeting 4 days a week. We are already off to a great start with registration so space is limited. If you or anyone you know is looking for a **wonderful preschool program that connects to the WLWV K-12 curriculum**, then please call the office at Stafford for more information or click on the link below. We hope your preschooler will soon be a part of the Stafford community!

Please visit the link provided for more information and the registration packet.

<http://www.wlww.k12.or.us/Page/2813>

POLAR PLUNGE—FEBRUARY 25th

Stafford is proud to announce that we have formed a Polar Plunge team to benefit the Special Olympics. If you would like to join our Stafford team or donate, please go to www.polarplungeoregon.com. Once you get to the website, you can go to the "Sign Up" link and navigate to the Portland site. There is a "Register" button that will take you to a page where you can search for our team. We're the Stafford Snowflakes! So far we've raised \$375 for the Special Olympics and we're 37% of the way to reaching our goal. Thank you for any level of participation you are willing to give. If you have any questions, please contact Kasie Hansen at [503-673-7150 x 5167](tel:503-673-7150)

Have PICTURES of STAFFORD KIDS?

We would love to include them in the YEARBOOK!

www.photos.google.com

Username: **staffordtigers2015**

Password: **tigersyearbook2015**

Simply upload your photos to the website above. If you have questions, contact:

Lisa Sumerlin: lissas518@aol.com

Julia Henry: juliahenry2@hotmail.com

Alaina Kuehn: alainakuehn@gmail.com

JANUARY

- Jan. 20 Stafford School Assembly 1:35 p.m. in the MPR
 Stafford Bingo Night - Doors open at 6:00 p.m. in the Gym
- Jan. 23 Scrip Order Week
- Jan. 27 Spirit Day!

FEBRUARY

- Feb. 1 PTSA Meeting 9:30 a.m. in the Staff Lounge
- Feb. 6 OBOB Battles Begin
 Scrip Order Week
 OMSI Family Night 6:00-8:00 p.m.
- Feb. 7 Bacidi - 5th Grade Musical 7:00 p.m. in the MPR
- Feb. 8 Professional Growth Day - **EARLY RELEASE at 12:10 p.m.**
 Schecter - 5th Grade Musical 7:00 p.m. in the MPR
- Feb. 9 Schroeder - 5th Grade Musical 7:00 p.m. in the MPR
- Feb. 10 Stafford School Assembly 1:35 p.m. in the MPR
- Feb. 11 Stafford PTSA Parent Social 6:00 p.m. World of Speed
- Feb. 20 **NO SCHOOL** - President's Day
- Feb. 21 Art Lit Training 8:30 a.m.
- Feb. 24 Spirit Day!
 Stafford School Assembly 1:35 p.m. in the MPR
- Feb. 25 Polar Plunge
- Feb. 27 Scrip Order Week
- Feb. 28 CREST Jane Goodall Science Symposium 7:30 p.m. - Wilsonville High School

STAFFORD CALENDARS:

To keep up with all that goes on here at Stafford please check our website.

<http://www.stafps.wlwy.k12.or.us/> and click on *Calendar*

Community NEWS

Greetings West Linn-Wilsonville Community!

The Education Foundation invites you to join us Saturday, March 4th at 7:00 to cheer on our Portland Trail Blazers. Tickets to this great community event buys you:

- Special ticket pricing
- Everyone participating in this event is invited to come down onto the court after the game and shoot a free throw
- Enter the raffle for an opportunity to high-five the Trail Blazers as they run out onto the court through the pre-game Courtside Kids experience! 20 kids between 7 and 13 years of age will be chosen
- All Proceeds are donated to The WLWV Education Foundation to support our purpose to hire more teachers to the District

Tickets will be available for purchase until Friday, January 27th. Simply complete the order form, provide payment (cash, check or credit card), and turn it into the main office at your school. Order forms can be found on our web site at <http://www.wlvvfoundation.org>, at your school office, or by [clicking here](#). We will deliver tickets to the schools the week of the game.

We look forward to our third annual Night at the Blazers with this great community.

Go Blazers!
Michele Beyer
Community Events Chairperson

West Linn Girls Youth Lacrosse Registration

Registration for the 2017 West Linn Girls Youth Lacrosse season is now open for grades 1 – 8. To register, please visit www.westlingirlslax.com and click on the orange “Register Now” button on the right hand side of the page.

Prior to the season, we will be hosting “Try Lax” events, so get your friends to come out, have some fun, and give lacrosse a shot. The “Try Lax” events are scheduled for:

- Sun Feb 19, 4-5pm, Rosemont Middle School Turf Field
- Sun Feb 26, 4-5pm, Rosemont Middle School Turf Field

Please send any questions you may have to: wlgirlslax@gmail.com

The West Linn – Wilsonville School District does not sponsor or endorse the activity/information contained on this flyer.

West Linn-Wilsonville

Science Fair 2017

You are invited to participate in the 2017 West Linn-Wilsonville School District K-12 Science Fair presented on **Tuesday, February 28th**. Science Fair projects will be completed at home, individually, in pairs, or in groups (of 3 students or fewer).

Recommended Timeline for Science Fair Projects

January 9 th -	Testable Questions
January 16 th -	Background Research and Hypothesis
January 23 rd -	Materials and Procedures
January 30 th -	Data Collection
February 7 th -	Conducting Experiments
February 14 th -	Gathering Evidence from Data
February 21 st -	Citing Sources & Project Board Design
February 28 th -	All Projects Complete!

Science Fair Expectations

A Science Fair project should:

- Be FUN!
- Demonstrate an understanding of the science inquiry process
- Be done carefully and neatly
- Showcase student work
- Be displayed on a tri-fold display board

2017 SCIENCE FAIR PROJECT CHECKLIST

Step 1: Testable Question

Ask a testable question based on your own observations in an area of science such as Physical Science, Life Science, Earth Science, etc. "How does a change/difference in _____ (variable) affect _____ (data)?"

Step 2: Research

Choose your topic. List what you already know about your topic. Learn more from books at the library or on the Internet. Ask an adult to help you research your topic.

Step 3: Hypothesis

What are the expected outcomes of your experiment? "If _____, then _____."

Step 4: Materials

List the supplies you need to complete the experiment and gather them with help from your teacher and/or parent. Think about your variables, your controls, and your set-up requirements.

Step 5: Procedure

Write a step-by-step procedure to test your hypothesis. Identify the variable you will change and the controls you will keep the same. Identify the data you will measure or observe each time you change the variable. Identify factors that could affect the data, and make sure those factors will not change during the experiment.

Step 6: Data Collection & Conducting Experiments

Prepare a table to record the data for your variable. Collect the data. Repeat the experiment to verify your results. Show the data in a way that is easy to understand using a table, chart, or graph. You may also use photos or drawings to illustrate what happened. Describe the data in your own words. Do you see a pattern? Did anything unexpected happen?

Step 7: Gathering Evidence from Data

Was your hypothesis correct (supported or disputed)? Why or why not? Do your results suggest a new question?

Step 8: Cite Sources & Project Board Design

Create a display to share your results with the school community at the Science Fair on April 23rd.

Guidelines FOR SCIENCE FAIR PROJECTS

OVERVIEW

- **Question:** Select a testable question to be answered by your experiment.
- **Research:** Research your topic.
- **Hypothesis:** How do you think the variable you will change relates to the data you will collect?
- **Materials:** Gather the supplies you will need. Think about controls and a variable.
- **Procedure:** Perform the experiment.
- **Data:** Gather data and make observations.
- **Conclusion:** Compare the actual results to your hypothesis. Draw conclusions.
- **Communicate Your Results:** Prepare your display board with the process, details, and/or results (See DISPLAYING YOUR SCIENCE PROJECT)

ABOUT YOUR PROJECT

- Focus on a specific area of science such as Physical Science, Life Science, Earth Science, etc.
- Use your own ideas and work
- Be creative, neat, and work carefully
- Demonstrate the scientific method (See TIMELINE for descriptions)

ABOUT YOUR DISPLAY

- Include a project display board (See DISPLAYING YOUR SCIENCE PROJECT)
- Include your name and/or the names of those in your group on the provided sticker. Place the sticker on the lower left corner of your board.
- Include your question and hypothesis
- Limit your display to a 1.5ft x 2.5ft table area

WHAT YOUR PROJECT MAY NOT INCLUDE

- Purchased science or math kits
- Expensive or non-replaceable personal property
- Balloons
- Live or dead organisms
- Human or animal foods
- Chemicals that are flammable or otherwise dangerous
- Glass
- Sharp items such as syringes, needles, or knives
- Matches, flame, or any apparatus producing excessive heat
- Batteries that supply power for long periods of time
- Parts too fragile to handle
- Electricity passing through non-insulated wire
- Anything that must be plugged into an outlet
- Equipment or device that may be hazardous to the public
- Sharp items such as syringes, needles, or knives

GETTING STARTED

Here are some typical questions to help get you started on developing your Science Fair project. Choose one of these topics and make it your own by getting more specific or use these questions as a guide to developing your own project idea.

- How does the type of water affect freezing time?
- How does the type of water affect boiling time?
- How does the type of liquid (viscosity) affect buoyancy?
- How does the type of cup affect temperature loss?
- How does color affect heat absorption in sunlight?
- How does soil temperature affect the time it takes a bean seed to germinate?
- How does the brand of AA battery affect battery lifespan?
- How does the distance from a light affect the size of plastic mini-figure's shadow?
- How does the angle of a ramp affect the distance a toy car will roll?
- How does the type of ball affect bounce height?
- How does magnetic temperature affect the strength of attraction?
- How does the type of ball affect falling speed?
- How does the string length affect the swing of a pendulum?

****We are trying to move students away from the traditional baking soda-vinegar volcano demonstrations, Mentos-soda explosions, growing gummy bears, etc.** As an alternative, please encourage your child to think about their target audience. Why will this experiment be important? In what real-world situation or context could this data be useful?

Need an Idea?

Making observations or asking questions in a Science Notebook is a great place to start. Observations can be made at grocery stores, parks, shopping malls, restaurants... even in your own home!

Next Generation Science Standards Grade Level Specific Topics to Consider

<http://www.nextgenscience.org/search-standards>

Kindergarten	Forces: Pushes & Pulls, Plants & Animals (Basic Needs & Habitats), Weather & Climate
First Grade	Light & Sound Waves, Plants & Animals (Parents/Offspring, Structure & Function of External Parts for Meeting Basic Needs), Patterns of Sun, Moon, Stars, & Daylight related to Time of Year
Second Grade	Properties of Matter, Interdependence in Ecosystems (Plant Growth, Seed Dispersal, Diversity of Life in Ecosystems), Fast & Slow Processes that Shape the Earth
Third Grade	Forces & Interactions (including magnetism), Interdependence in Ecosystems (fossils, link between plants/animals/habitat, impacts of environmental changes), Inheritance and Variation of Traits
Fourth Grade	Energy (speed, transfer of sound/light/heat/electrical currents), Waves (wavelength & amplitude, transfer of info. over a distance), Animals (internal & external survival features, use of senses to process information & survive), Rock Formation/Weathering/Erosion
Fifth Grade	Properties of Matter (particles & conservations of matter), Matter & Energy in Ecosystems, Earth's Systems (geosphere, biosphere hydrosphere, atmosphere), Space Systems (Stars & Solar System)

HOW TO BEGIN YOUR EXPERIMENT

Think of a good question based on your own observations! Revise the question until you can form a hypothesis you can test using the SCIENTIFIC METHOD!

An Example for Children:

You like to play ball outside in winter. You wonder if a ball bounces higher when it is cold. You ask, "How does temperature affect the height of the ball's bounce?" That is your **question**. You guess the answer is "A cold ball will bounce the highest." That is your **hypothesis**.

To experiment, you drop a ball and measure how high it rises on the first bounce. Your **variable** will be the temperature of the ball. Your **data** will be the bounce height. You will keep all other factors that you think might affect bounce height (the ball, height, floor) the same for each drop. You repeat the experiment several times to be sure of the results.

LIMITING THE SCOPE OF A PROJECT

These sample questions show how to revise a question to **limit the scope of the experiment for success** using the scientific inquiry method. Choose only 2 variables to test.

- How does the type of water (salt or fresh water) affect the time it takes to freeze?
- How does the type of water (salt or fresh water) affect the time it takes to boil?
- How does the temperature of liquid (hot tea or iced tea) affect the time it takes a sugar cube to dissolve?
- How does the type of cup (paper or ceramic) affect heat loss of hot beverage?
- How do clothing colors (white or black) affect the amount of heat absorbed in sunlight?

HELPFUL TIPS FOR PARENTS

- To simplify our language for children, **variable** refers to one aspect of the experiment will change; **control** refers to all other aspects of the experiment you will keep the same.
- The **question should be simple, but it should not be answered by a simple yes or no**. “How does temperature affect the height of a ball’s bounce?” suggests a better experiment with several values for the variable than “Does temperature affect the bounce of a ball?” However, for younger children, a specific comparison that limits the variable to two values is appropriate: “Which bounces higher, a cold ball or a warm ball?”
- The **question should not be answered by a survey** of the personal opinions or preferences of family, friends, or classmates. Experiments using human subjects will be screened for safety and consent. Survey data may be used as part of the background research about a topic.
- The **hypothesis does not have to be proven correct** for the experiment to be a success.
- The **variable does not have to affect the data in expected ways** for the experiment to be a success.
- The **experiment should have only one variable** that changes.
- The **experiment should be practical and repeatable**. Your child should repeat the experiment several times to compare data.
- The **experiment should not be a simple demonstration**. Mixing baking soda and vinegar is a fun demonstration of a chemical reaction, but not a science inquiry unless the possible cause and effect relationship of vinegar or baking soda is explored. Measurement and authentic application also prove to be difficult in this context.
- **The data should be measured in units to suit your child’s mathematical skill**. Using the bounce experiment as an example, if your **five-year-old** can only count to 10, it may be best for her to mark bounce heights on a paper tape and display the tape as data. He/she can report the quantitative comparison in its simplest form: whether the cold ball bounced higher or lower than the warm ball. If your **eight-year-old** can count past 100, he can certainly measure bounce height to the nearest centimeter, but if he does not yet understand averages, it may be best for him to display bounce heights as individual vertical bars in a graph and report the general trend. If your **eleven-year-old** can calculate averages, she is ready to graph the average bounce height for each temperature.

GUIDELINES FOR DISPLAY

You must follow these guidelines to display the results of your experiment at the Science Fair.

ALL Science Fair Displays will:

- Be backed by a display board
- Fit within a 1.5'ft x 2.5'ft table area
- Include a project title at the top center
- State the question below the title.
- Include the student's name(s), grade, and teacher below the title
- Clearly label the: background, materials, procedure, data, analysis, hypothesis, and conclusion.

Displays may **NOT** include any of the following:

- Balloons
- Live or dead organisms
- Human or animal foods (Pictures are OK, but please do not bring in food)
- Hazardous or flammable chemicals (All other chemicals and liquids, including water, must be in permanently sealed, unbreakable containers.)
- Glass
- Sharp items
- Matches, flame, or any apparatus producing excessive heat
- Unshielded belts, pulleys, chains, wires, cables, or other moving parts under tension or with pinch points
- Electricity passing through non-insulated wire
- Anything that must be plugged into an outlet
- Batteries that supply power for long periods of time. (Experiments requiring a battery should connect the battery in circuit using a "momentary switch" that opens when you let go.)

It's a lot of fun to bring materials and equipment from your experiment to display on the table in front of your board. But, is it safe for a toddler to handle? When in doubt, use photographs or drawings to illustrate your experiment. The Science Fair Committee reserves the right to remove any part of a display deemed unsafe.

For more ideas and inspiration, visit:

<http://www.sciencebuddies.com>

<http://www.pbs.org/parents/zoom/science/>

<http://www.pbs.org/parents/zoom/engineering/>

<http://www.all-science-fair-projects.com/>

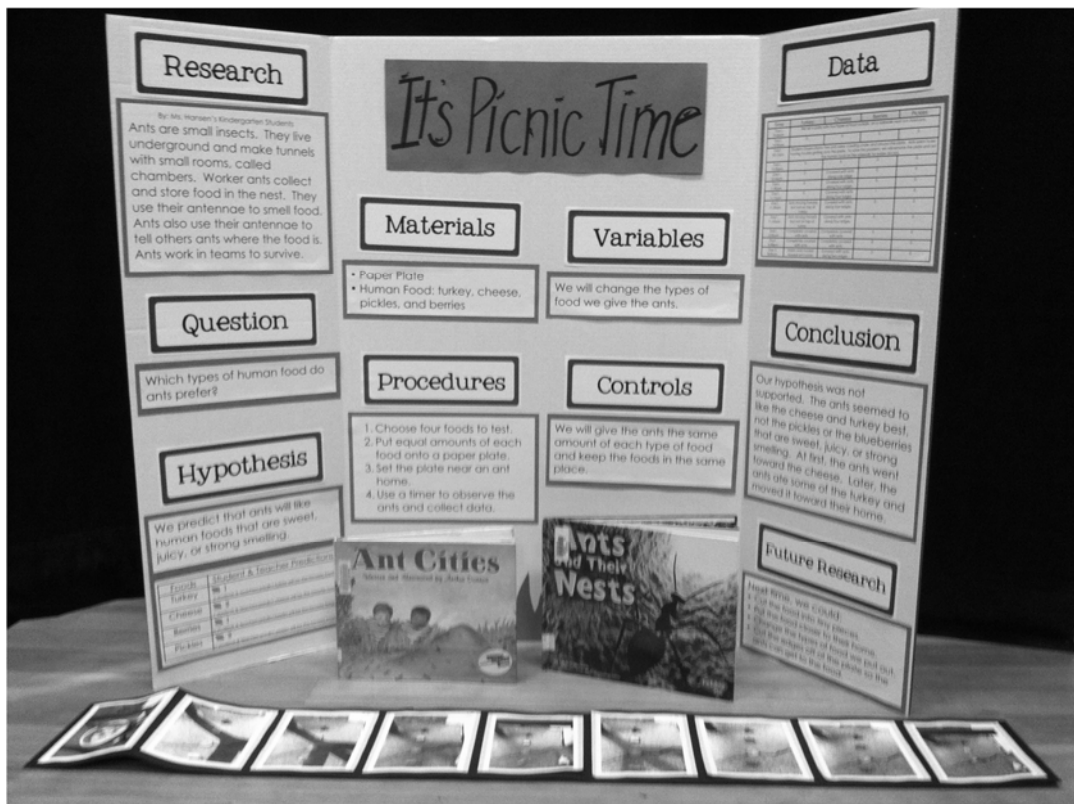
<http://www.sciencefair-projects.org/>

<http://www.sciencefairadventure.com/>

DISPLAYING YOUR SCIENCE PROJECT

Sample: Science Inquiry Project Layout

<p>Research Gather background information about your question.</p> <p>Question How will ____ affect ____?</p> <p>Hypothesis I hypothesize ____ because ____.</p> <p>Name Sticker</p>	<p>Project Title Team Member Names & Grade</p> <p>Materials List the items you will need</p> <p>Variable Only change <u>one</u> aspect of your project</p> <p>Controls Everything else you will keep the same</p> <p>Procedure</p> <ol style="list-style-type: none">1.2.3.4.5.	<p>Data Data gathered in table and/or graph form</p> <p>Conclusion What patterns or trends did you observe?</p> <p>Future Research What research could you do in the future related to your findings?</p> <p>Bibliography</p>
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Stafford is proud to announce that we have formed a Polar Plunge team to benefit Special Olympics. We encourage students, families and staff to join our team. Each team member is responsible for raising \$25 in donations by the end of February. We would love to involve our West Linn community. If you have ideas or questions, please contact Kasie Hansen at 503-673-7150 x 5167 or hansenk@wlwv.k12.or.us

Student contacts- Lauren Kamali, Aiden Kehm, Will Schecter, Sydney Brandvold

plungeoregon.com/



Join our team! Stafford Snowflakes

Raise a minimum of \$25 for Special Olympics

Return this form to the office with a parent signature

Go online to register

<http://www.plungeoregon.com/Sub-Page.aspx?Name=History&PID=142>

Go to "Join a team" Stafford Snowflakes

Name _____

Parent signature _____