

| Proj.# | First Name | Last Name | Category | Division | Project Title | Project Summary |
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| 1 | Fardin | Abbassi | Elementary | Exhibition | Anti WiFi | Hacking is a problem through the world. The reason why is because of insecure WiFi. By creating a WiFi blocker, we can test what materials are the best at securing WiFi. |
| 2 | Kai | Tuttle | Elementary | Exhibition | Ice cream melting times | Comparison of different ingredients of ice cream to compare melting points and times. Store bought ice cream and homemade ice cream will also be used. |
| 3 | Jessica | Goodman | Elementary | Exhibition | Erosion Eraser | Our project is about shoreline erosion near lakes. We are testing 3 sizes of rocks in Gabion baskets to see which can best slow down the effect of erosion. Our experiment was set up so that we had a mini ocean and created waves on the shore. We determined that the medium sized rocks worked best. |
| 4 | Luciana | Tudor | Elementary | Exhibition | Sour Power | This project involves creating a lemon juice fuel cell. The independent variables in our project are the different kinds of metal we use for the anode and cathode. We tested the resulting voltage with each arrangement. |
| 5 | Bader-Eddin | Dyab | Elementary | Exhibition | Wind Turbine | This Experiment simulate the Wind turbine functionality by spinning a small blade to rotate a small generator and lighting up few led lights to proof the concept of wind kinetic energy ability to generate electrical energy |
| 7 | Mohamed | Ahmed | Elementary | Exhibition | What Makes Ice Melt Fastest? | Hello, my science project is about what melt ice fastest. Have you ever wondered what melts ice/snow the fastest and how does it work? |
| 8 | Talha | Samir | Elementary | Exhibition | Drones Now and In the Future | My Project is about Drones now and In the future and I built a simple drone which I will be presenting with my project and How we use Drones now and How can we use it in the future? There are many features can be added to the drones, It is extremely useful to use the drones when human interaction is too risky, situations like natural disasters, police force, and army and much more can be added. Thanks! |
| 9 | Emily | Wu | Elementary | Exhibition | Artificial Food and Natural Food- Which Makes You Smarter | Right now in this world the use of artificial food is growing larger and larger. People too are relying more on eating these man-made food instead of consuming natural foods. So in this project I will be focusing on the comparison of if artificial food or natural food will make your brain healthier and give you a better memory. By doing this I will be using my two pet mice. These mice will be put in separate cages, but their environment will still be the exact same. The only difference will be their food. While one mouse will be fed normal artificial mouse kibble, the other will be consuming fruits, nuts, and vegetables. When they have thoroughly digested the food and have it running in their bloodstreams we will gently set them one by one in a safe maze we constructed. Then we will be observing their memory and how it improves each time it runs. Taking this information we will figure out which has a better memory and therefore finding out if artificial food or natural food will help your brain more. |
| 10 | Jana | Al Majali | Elementary | Exhibition | Can a water filtering system be built using household items? | My project is a water filtering system that uses common household items to clean dirty water and make it safe to drink. This is meant to be easy to use and build to make it more accessible to people who need it the most. |

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| 11 | Menan | Malak | Elementary | Exhibition | Homemade Lava Lamp | <p>Background: The Lava Lamp has been around since 1963 Invented by Edward Craven Walker. For those unfamiliar with Lava Lamps, they were a popular decor of apartments in the 60's.</p> <p>Purpose: The purpose of a homemade Lava Lamp is to explore the relationship between oil and water in terms of density as well as hydrophilic and hydrophobic compounds.</p> <p>Hypothesis: My hypothesis is that when oil, water, food coloring, and Alka Seltzer are mixed they will give a Lava Lamp effect.</p> <p>Procedures: 1.Pour oil into an empty glass container so that it fills up 75% of the way and fill up the rest of the glass container with water. 2.Put 8 drops of food coloring into the glass container. 3.Break the Alka Seltzer tablet into lots of pieces. 4.Put the pieces of the Alka Seltzer tablet one by one in the glass container and the Lava Lamp starts to bubble.</p> <p>Results: The oil will float on top of the water because it is less dense. And the Alka Seltzer will sink to the bottom of the glass container and bubble and create a Lava Lamp effect. If you look at the ingredients for Alka Seltzer, you will find citric acid and sodium bicarbonate (baking soda). When you drop the tablet in water, the acid and the baking soda react, this produces the fizz. You can think of an Alka Seltzer tablet as compressed baking powder with a little aspirin mixed in.</p> |
| 12 | Luke | Weber | Elementary | Exhibition | Terrible Tornadoes | I researched tornadoes for my research project. I found out what they are, what causes them, where and when they occur, how they are measured and some famous tornadoes in history. I also made a 3D model. |
| 15 | Dorie | Tesseyman | Elementary | Exhibition | Water and Plant Growth | The objective of this experiment is to determine the effect of different amounts of water on plant growth. We will water seeds with different amounts of water daily and observe the rate of growth. |
| 16 | Rayyan | Khan | Elementary | Exhibition | Bones and Calcium - Category: Health | In this experiment, we will explore the similarities and differences between bones and other hard parts from animals to determine which have properties similar to the calcium found in bones. |
| 17 | Berivan Aya | Abdulla | Elementary | Exhibition | cleaning water | cleaning dirty water through a series of filters that include gravel, sand, carbon material and filter paper. Once the dirty water passes through the filtering system it will be clean enough to drink. |
| 18 | Emily | King | Elementary | Exhibition | Candy Chromatography | The project is a comparison of the chromatography of the dyes in green Skittles and green M&M candies. The participants will test for differences and similarities in the patterns for both types of candies. |
| 52 | Sarim | Khan | Elementary | Exhibition | Bubble Wrap Test: What kind provide the most protection? - Type: Physics | To discover what the bubble wrap shape work best in cushioning impact. Some bubbles wraps are small, some are large and some are square and some are round. We are doing an experiment of different shapes in protecting the things. |
| 53 | Junior | Nyamusa | Elementary | Exhibition | Pure Genius | Our project explores the use of distillation, and filtration to purify water. We were trying to find out which way would purify the water the fastest and the most effectively. We found that distillation purified the water most effectively, but it took an hour to get a Petri dish full. Filtration purified the water fastest but it didn't do so very effectively. |
| 54 | Raghad | AlKuhaili | Elementary | Exhibition | Does mint affect temperature | My project talks about how mint could speed the cooling process of water. In order for me to know that, I did an experiment. I put mint in hot water every 5 minutes and took the temperature. I took my results, then I compared it to the controlled hot water for physical properties such as temperature. After I went back to my hypothesis to see if I was. |
| 55 | Ameer | Elkassem | Elementary | Exhibition | Can adding springs to shoes make you run faster? | Ameer has a dream to invent shoes that make you run faster using the potential energy made by springs inserted into the insoles of regular running shoes. This experiment was his first attempt. |

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| 57 | Matthew | Winia | Elementary | Exhibition | Infinity Mirror | I will build an infinity mirror and explain in the exhibit with a bristol board and verbally how it works. I will stand with my exhibition and answer questions and explain. |
| 58 | Nazem | Kadri | Elementary | Exhibition | Concussions | My project is to due with Concussions. I will show you what happens to the brain when there is a big impact to the head. |
| 59 | Aimen | Awan | Elementary | Exhibition | Static Electricity | Static electricity is the imbalance of an electrical charge on the surface of an object. It is called static because the charge that it makes will stay in one area for a bit of time, rather than moving or flowing to another area. When you rub a balloon in your hair it builds up static electricity because the electrons from your hair are being transferred to the balloon so now it has a negative charge, while your hair is left with protons so it has a positive charge. { If the object has more electrons it is a negative charge and if it has more protons it has a positive charge.} So now the positive and negative will attract because positive and negative charges attract. |
| 60 | Maryam | Chaudhary | Elementary | Exhibition | Understanding Sugar Metabolism and Perception | Sugar consumption has been identified as one of the most serious health related issues of our age. Current rates of childhood obesity are increasing dramatically and it is estimated that the current generation of children will be the first generation live shorter lives than their parents. As a result, I felt it was important to identify people's understanding of the role of sugar in their diet and provide education in this regard. The most common source of excess sugar in our diets comes from the consumption of sugary drinks. Therefore, I selected a number of common beverages and recorded their sugar content. A survey was then developed to see if people could accurately identify the amount of sugar in these drinks. The age, education level and their self perceived nutritional knowledge was recorded to see if this affected the results. The survey was performed on March 2nd and 3rd 2017 on LIS students and staff which asked questions about sugar content in common beverages and general sugar related health questions. |
| 61 | Raghad | Yousif | Elementary | Exhibition | Remotely controlled lock | This project will exhibit a remotely controlled lock. It uses a deadbolt lock that is mounted over a wooden board. A motor is also attached to the deadbolt's moving part. An RF based remote control will move a motor back and forth to lock and unlock the deadbolt. |
| 62 | Ahyanhussein | Hussein | Elementary | Exhibition | Why do you tear when you cut an onion and how can it be reduced | investigate if there is a visible or invisible item causing the tearing when you cut an onion and cut an onion in different scenarios to see if the tearing is reduced or eliminated. |
| 63 | Zainab | Rizvi | Elementary | Exhibition | Surface Optimization for a given cylinder | For a given cylindrical volume, what is the minimum surface area required to build the cylinder. Zainab will be using different cylindrical product from the daily use and examine whether the product is using minimum surface area. She will show the relationship between height and radius of the cylinder which will always give the minimum surface area. |
| 64 | Ghd | AlShaikh | Elementary | Exhibition | How Safe Is The Air You Breathe? | In this project I would like to measure air pollutants in different environments. I made a pollution catcher, and placed it in different environments: (home, school, office, semi-covered parking lot, and garden). My result show that the semi covered parking lot has the least amount of pollution, while the garden has the most. |
| 65 | Wesley | Pranger | Elementary | Exhibition | How to Turn Milk into Plastic | We will show you how to turn milk into plastic and see if changing the type of milk we use will make a difference in the quality of the plastic. We will use whole milk, 2%, skim milk and a heavy cream. |
| 66 | Jade | Hayward | Elementary | Exhibition | CupCakes | We will be baking cupcakes with a normal recipe as the control. We will remove one ingredient for each batch and see what the effect is on the cupcakes. |
| 67 | Lubna | Zabalawi | Elementary | Exhibition | Will you stop Coffee after this ???!! | My science fair topic is talking about caffeine and how it effects our bodies and daily activities. So in this project I will be testing people's blood pressure. And of course there are more things that I will do. So basically the main thing in the project is to show the people how caffeine is bad for us because I am going to make them drink some coffee and then measure their blood pressure. |

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| 68 | Aanud | Mohamed | Elementary | Exhibition | Can Glass Be Invisible | <p>Students determine the refractive index of a liquid with a simple technique using a semi-circular hollow block. Then they predict the refractive index of a material (a Pyrex glass tube) by matching it with the known refractive index of a liquid using the percent light transmission measurement. The homemade light intensity detector uses an LED and multimeter, which are relatively inexpensive (and readily available) compared to commercially available measurement instruments.</p> <p>got it from: https://www.teachengineering.org/activities/view/uoh_invisible_activity1</p> |
| 69 | Shayan | Mahmood | Elementary | Exhibition | Effect of Sugar in Brain Functionality | <p>Glucose, a form of sugar, is the primary source of energy for every cell in the body. Because the brain is so rich in nerve cells, or neurons, it is the most energy-demanding organ, using one-half of all the sugar energy in the body. Brain functions such as thinking, memory, and learning are closely linked to glucose levels and how efficiently the brain uses this fuel source. If there isn't enough glucose in the brain neurotransmitters (the brain's chemical messengers) are not produced and communication between neurons breaks down.</p> <p>In my project, I looked at how sugar can affect intelligence and vision by giving participants different sources, amounts and types sugar over the course of a day. I then tested them with a IQ and focus test also recording the amount of sugar in the food they ate during the day. After that I organized the data into a table and graph to analyze the effect of sugar on the participants' performance.</p> |
| 70 | River | Currie | Elementary | Exhibition | Bridge Structure and Strength | <p>Comparing the strength and structure of three types of bridges; Suspension, truss and beam with historical examples. the display will consist of photos and video of the experiment.</p> |
| 71 | Maryam | Al-Sabawi | Elementary | Exhibition | Distracted Driving | <p>Distracted driving leads to over 1 million car crashes and over 3000 deaths every year in North America. This project investigates the affect of distractions on people's reaction time. The average reaction time of 36 test subjects was measured as they played an iPad game with and without distractions. On average, each form of distraction (texting, talking with passenger, hands-free calling, and drinking water) significantly increased people's response time. Response time also related to age group and the difficulty of the task. These results show the dangers of distractions on driving.</p> |
| 72 | Izabella | Seguin | Elementary | Exhibition | Moldy Cheese | <p>Testing six different types of cheese to see which ones mold quicker than others. Goat cheese, old cheddar, feta, cheese slice, parmesan, blue cheese</p> |
| 73 | Lexie | Tiner | Elementary | Exhibition | Plants / nutrition | <p>Our project will be an experiment with plants and their development while being fed with several different liquids. We can't wait to see what happens! Peter Jansen is Lexie's partner.</p> |
| 74 | Abigail | Bickford | Elementary | Exhibition | The EGGsperiment | <p>Introduction / Purpose: Many people all over the world are getting their teeth whitened. People may think that this is because they are not brushing their teeth or it's just the daily impact of food. However it may be caused by the liquids we drink. In this experiment, I wanted to test exactly what liquids and drinks affect our teeth the most, in order to better understand how they affect the colour of our teeth. I am using eggshells instead of teeth because teeth and eggshells both contain mostly calcium. For the liquids I am using Coca-cola, coffee and tea.</p> <p>Hypothesis: The Coca-Cola is going to stain the eggshell the most. Mostly because Coca-Cola has a lot of caramel colouring but Coca-Cola also has sugary acid in the liquid.</p> <p>Results: The Coca-Cola stained the eggshell the most with the scale of 4 compared to my coloured chart. The tea then stained the eggshell the second most with the scale of 3 compared to my coloured chart. And the coffee stained the eggshell the least with the scale of 2 compared to my coloured chart.</p> <p>Conclusion: In this experiment, Coca-Cola stained the eggshell the most. I can say that these results support my original hypothesis that Coca-Cola will stain the eggshell the most.</p> <p>To improve this experiment I could keep the eggshells in the liquids for a longer period of time, or I could use real teeth, to actually determine how these liquids would cause staining.</p> |
| 75 | Nina | Dimitrov | Elementary | Exhibition | Shake it up earthquake damage | <p>In my science project, I invented an effective way to reduce damage from earthquakes on buildings. I simulated an earthquake and made the structure that I am testing, using Lego pieces. I conducted 3 experiments, measuring the impact with a seismometer app. The 3 experiments were the following: a control group, a test using springs, and a test using rollers (balls). My presentation includes exhibits such as: the structure that is being tested, the seismographs showing the results, and various photos.</p> |

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| 76 | Olivia | Siroen | Elementary | Exhibition | Crystal Radio | A radio station plays music forming radio waves which are sent out transmitter antennae into the air. Each radio station sends out a different frequency radio wave. The receiver radio antennae in your home pick up all the radio waves and vibrate electrons in waves around a copper coil. |
| 77 | Kaeden | Vanderkooy | Elementary | Exhibition | Are Child Resistant Containers Actually Child Resistant? | In my crystal radio, a wiper blade is moved along the copper coil to focus the frequency of the wave tuning in the radio station. The electronic waves of that frequency vibrate a crystal which makes sound waves in the air. I am testing human subjects from grades SK through grade 3 to see if they can open 5 different child resistant containers. From my data, I will determine if child resistant containers are effective in children from these age groups. |
| 78 | Arham | Aziz | Elementary | Exhibition | Fire - The Most Tangible of All Visible Mysteries | My Project is about Combustion Reaction. Combustion is the process of burning a substance to create heat, and often, light in the presence of oxygen. |
| 79 | Emaan | Ellaboudi | Elementary | Exhibition | How far do germs go | To find out about methods to protect us and others from airborne germs by trying to find out how far can germs travel when someone sneezes for example. |
| 80 | Haroun | Elamin | Elementary | Exhibition | Colour Psycholog | What is the effect of colours on human behavior. How different colours make you feel and act. How marketing and advertising companies take advantages of that. |
| 81 | Wael | El-Kadri | Elementary | Exhibition | E-Waste | In this project, I discussed e-waste. I looked at the impact of e-waste on health and the environment. I also provided proper ways of recycling e-waste. Then, I surveyed adults from the community to see if they know about e-waste and its impact on the environment. Survey results show that 40% of the participants are not aware and 30% of them throw their e-waste in the garbage. These results support the need for educating people and increasing awareness about this issue. |
| 82 | Emily | van Harten | Elementary | Exhibition | Mini Hot Air Balloons | We will make several different hot air balloons in order to test various materials and winds to see which one stays in the air the longest. |
| 83 | Meiad | Ahmed | Elementary | Exhibition | Natural Antibiotics vs. Pharmaceutical Antibiotics | For my project I researched the effects of natural antibiotics and pharmaceutical antibiotics on the growth of bacteria. I wanted to test to see which is a better antibiotic at killing the bacteria and stopping the growth of bacteria. I did this by growing bacteria collected from various areas around the house and testing the different antibiotics on the bacteria grown on the petri dishes. |
| 84 | Sophia | Koopman | Elementary | Exhibition | Taste It | We tested whether people knew what foods they liked. They rated foods before they tasted them and after they tasted them. The results would show whether people were actually aware of what foods they liked. |