

LIST OF 2019 VIRSF PROJECTS – Sorted by Division - Category

#	Project Title	Gr.	Division - G	Project Summary	Category	Lang	St/Exp /Inn
18	Help an Apple Stay Fresh	4	Biotechnology	When you slice an apple in half have you ever seen it turn brown? It turns brown because the oxygen gets	Elementary	en	Experiment
21	What is the density	5	Biotechnology		Elementary	en	Experiment
84	How To Prepare An Apple So That It Dosen't Go Brown	5	Biotechnology	A cut apple will go brown quickly. This experiment will test different ways to prevent that.	Elementary	en	Experiment
102	Chicken Defense	8	Biotechnology	After I found three of my chickens dead in my field, me and my family tried everything to protect them but	Junior	en	
133	Development of a Common Micro-Organism to Solve Plastic Pollution	10 dual	Biotechnology	As the world becomes polluted, it becomes more important to find a solution to this problem. One of the	Senior	en	Experiment

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6	Biodiversity in Water from Different Locations Around Victoria	4	Earth and Environmental Science	I am going to take water samples from different locations around Victoria (likely Cadboro Bay, Elk	Elementary	en	Experiment
11	Fantastic Filters and How to Make Them	5 dual	Earth and Environmental Science		Elementary	en	Innovation
16	Lake Pollution	5 dual	Earth and Environmental Science	Our question "Which lake is the least safe for fish" We went to different lakes and tested the pH GH KH	Elementary	en	Experiment
17	What is Happening to our Oceans? Microplastics around the Pacific	4	Earth and Environmental Science	My project is about microplastics. Microplastics are pollution caused by plastic degrading in the ocean	Elementary	en	Experiment
23	Safe to drink	5	Earth and Environmental Science	My big question for my project is whether a simple, home-made water filter is effective to remove	Elementary	en	Innovation
44	Plastics & Aquatic Plants: Can They Co-Exist?	5	Earth and Environmental Science	Plastic pollution is a global issue affecting all of us. The purpose of this project was to investigate if	Elementary	en	Experiment
46	Oil spills and marine life	5	Earth and Environmental Science	My question is do oil spills effect marine life. I put a feather representing seabirds feathers and a sponge	Elementary	en	Experiment
30	Electrical Mud	6	Earth and Environmental Science	I am trying to create electricity, and see which type of mud creates the most from estuary mud, biosolids	Intermediate	en	Experiment
34	A cure to harmful plastic	6	Earth and Environmental Science	The aim of this project is to have acetone melt plastic. But afterwards where would it go ? Even i thought	Intermediate	en	Experiment
54	To Dye or not to Dye, that is the question...	6	Earth and Environmental Science	My protect is about hair dye and how it impacts our environment. I will test to permanent hair dye, one	Intermediate	en	Experiment
89	Green Cleaning is Good Cleaning	7	Earth and Environmental Science	We let the pennies touch bacterial human hands first, and then compared them by cleaning the pennies	Intermediate	en	Experiment
92	Dirty Apples	7 dual	Earth and Environmental Science	Our project involves testing the amount of bacteria we consume that is found on the surface of apples. We	Intermediate	en	Experiment
94	Decomposing Plastic: Composing a Greener Future	7 dual	Earth and Environmental Science	Since plastic is such a big problem in the world, and there are far too little ways of dealing with it, we	Intermediate	en	Experiment
96	Hydrella - No Bottle Are Safe	7 dual	Earth and Environmental Science	Our project is about a water saving and harvesting system.	Intermediate	en	Innovation
97	Sun Spot Cycles	7	Earth and Environmental Science	My Study is about how the sun has different cycles and how that we are going into a solar minimum. My	Intermediate	en	Study
98	Taste or Replace	7 dual	Earth and Environmental Science	We tested to see if people would be willing to change what type of milk (almond, rice, cashew, soy, coconut,	Intermediate	en	Experiment
99	Plastics are going down	7	Earth and Environmental Science	My project is about Biodegradable plastics. I tested to see whether plastic packaging that was labeled	Intermediate	en	Experiment
101	The BIOWAX Straw	7 dual	Earth and Environmental Science	We created a 100% percent biodegradable straw made out of soy wax in hope to help keep the earth	Intermediate	en	Innovation
104	DIY PLASTIC CREATIONS Can you make useful things from your home recycling bin?	8	Earth and Environmental Science	I wanted to learn which household recycled plastics could be melted in an oven to re-create household	Junior	en	Innovation
105	Mycoremediation	8	Earth and Environmental Science	For my project I tried to figure out if mycoremediation is a safe, cost effective and relatively cheep way to	Junior	en	Experiment
110	Toxic Sunscreen: The Effect of Sunscreen On Marine Plankton	8	Earth and Environmental Science	I attempted to determine if chemical sunscreen (oxybenzone) and physical sunscreen (zinc oxide)	Junior	en	Experiment

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114	The Dirt On Microplastics	9	Earth and Environmental Science	I set out to find to what degree micro(nano)plastics are accumulating in the local earthworms. I built two	Junior	en	Experiment
115	Using Animal Behavior to Detect Environmental Changes	9	Earth and Environmental Science	Many studies show that animals sense both gradual and instant environmental changes quicker than	Junior	en	Experiment
123	Effects of Soil Liquefaction	8	Earth and Environmental Science	The project is going to be demonstrating what soil liquefaction is, how it can affect the landscape, and	Junior	en	Experiment
124	Est-ce que nos marres résiduelles sont en bonne santé?	8	Earth and Environmental Science		Junior	fr	Experiment
125	Effect of Ski Wax	8	Earth and Environmental Science		Junior	fr	Experiment
129	Carbon Pollution to a Carbon Solution	9	Earth and Environmental Science	My project is about taking CO2 from the atmosphere and turning it into a solid that could benefit the ocean	Junior	en	Experiment
130	Photo-degradation Of Cellulose Acetate in Different Water Sources	9	Earth and Environmental Science	Nearly 4.5 trillion cigarette butts are disposed into our environment every year worldwide. Given this volume	Junior	en	Experiment
131	Is this the End of Coral?	9	Earth and Environmental Science	My project focuses on coral reefs and climate change. The purpose of my project is to learn more	Junior	en	Study
134	Is your sunscreen damaging coral reefs?	10	Earth and Environmental Science	Oxybenzone-based sunscreens are known to be harmful to the environment. In this project, natural	Senior	en	Experiment
138	Extracting Pine Oil to Create Biodiesel	10	Earth and Environmental Science	Biofuels are a promising technology currently as they are a more environmentally friendly alternative to the	Senior	en	Innovation
140	Hope for Salmon	10	Earth and Environmental Science	My project is all about Chum Salmon, but most specifically, What the main requirements for a healthy	Senior	en	Study
142	Alternatives to Plastic Packaging	11	Earth and Environmental Science	I wanted to find out what the best alternative to plastic packing was. First I researched different products that	Senior	en	Experiment
146	Plastics and Ocean Acidification	11	Earth and Environmental Science	My project is focused on the affects of ocean acidity on plastic pollution. I wanted to discover how the	Senior	en	Experiment

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1	Quieter Drones	5	Engineering and Computer Sciences	This project investigates how to make drones quieter by testing various propeller types as well as	Elementary	en	Experiment
4	Why Fire the Wifi?	4	Engineering and Computer Sciences		Elementary	en	Innovation
20	A window into the strength of glass	4	Engineering and Computer Sciences	The goal of this project is to test which types of glass are best for use in car windows. The following	Elementary	en	Experiment
32	Walking on water shoes	6	Engineering and Computer Sciences	In our project we are making shoes that will allow you to walk on water. We are calling these shoes Water	Intermediate	en	Experiment
35	Is it Time to Water your Plants?	7	Engineering and Computer Sciences	I am creating a soil moisture sensor to indicate whether a plant is moist or not.	Intermediate	en	Innovation
41	Cooling Kerfuffle	6 dual	Engineering and Computer Sciences	Our innovation project is a jacket that will keep you cool during hot weather. The reason it is a coat that is	Intermediate	en	Innovation
62	Pressure Plate to Prison	6	Engineering and Computer Sciences	Imagine you are in your house at night, and the power goes out. Your alarm doesn't work without	Intermediate	en	Innovation
64	The Gravity Battery	6	Engineering and Computer Sciences		Intermediate	en	Innovation
66	Aqualetric	6	Engineering and Computer Sciences	A battery that is powered by water and metals.	Intermediate	en	Innovation
68	Travel Pal	6 dual	Engineering and Computer Sciences	Travel pal is a tooth brush that lights up your life! It has a light, toothpaste, and a mirror built in.	Intermediate	en	Innovation
79	Grounds For Change: Brewing a Better Future	7	Engineering and Computer Sciences	Every year coffee grounds end up in landfills, producing methane, as well as in the water supply,	Intermediate	en	Innovation
82	The En-light-ening Scooter	6 dual	Engineering and Computer Sciences	Our project is a scooter that has a stepper motor attached to the front wheel and when the scooter is	Intermediate	en	Innovation
91	Put a Twist on it	7	Engineering and Computer Sciences	This Science Fair project is on wind turbines and the electricity they produce. I wanted to test 3 sets of	Intermediate	en	Experiment
106	Capturing Carbon to Stop Climate Change	8	Engineering and Computer Sciences	The study utilizes a modified model of PCC (Post Combustion Capture) device attached to an exhaust	Junior	en	Innovation
113	Protein Problem: A digitized at-home urinalysis device to aid patients suffering from kidney disease	9	Engineering and Computer Sciences	For long-term patients of kidney diseases, daily testing of urine for protein using urinalysis strips is a reality. Urinalysis strips contain many different square	Junior	en	Innovation
117	Le Meilleur Hygrometre du Bois	8	Engineering and Computer Sciences	My experiment was testing how to make the best wooden hygrometer. A hygrometer is used to	Junior	fr	Innovation
122	Robotic hand controlled by body movements	8	Engineering and Computer Sciences	My project is about a robotic hand controlled by body movements. I built a sensor using velostat, tape,	Junior	en	Innovation
136	Remote Control for Wheeled Mobile Robots through Wi-Fi	11	Engineering and Computer Sciences	Nowadays, mobile robots have become more and more popular in commercial and industrial settings. A	Senior	en	
137	Sensor Accuracy in IMU	10	Engineering and Computer Sciences	Sensor accuracy can be worsened by many variables such as temperature, obstructions, installation	Senior	en	Experiment
139	Wearable Flexible Thermo-Electric Generators	11	Engineering and Computer Sciences	This Project is attempting to discover the requirements to build highly functional Thermo-	Senior	en	Innovation
150	Quantum Physics through Space: How We Can Manipulate Quantum Mechanics to protect us from innovative	12	Engineering and Computer Sciences	My project is focused on Quantum Distribution in Space as well as Quantum Encryption within Satellites, I will display and explain these concepts to	Senior	en	Innovation

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2	Smell Your Way to Better Memory	5	Health Sciences	This experiment is about the effect of rosemary scent on short-term memory in children ages 9 - 14. Pure	Elementary	en	Experiment
12	Bubbly Belly	5	Health Sciences	My hypothesis was that fennel tea would reduce acid reflux more than chamomile, and licorice root tea	Elementary	en	Experiment
19	Dangers Of Vaping	4	Health Sciences	The purpose of my project is to educate people of the dangers of vaping. Although people think its an	Elementary	en	Study
27	Clean or Green: Does hydrogen peroxide protect you from bacteria?	5 dual	Health Sciences		Elementary	en	Experiment
48	How video games effect your focus	5	Health Sciences	I took participants and gave them a math test. Then I made them play video games for forty five minutes. I	Elementary	en	Experiment
31	What is the most important component of balance?	6	Health Sciences	My project is an experiment to determine the most important component of balance: vision, the	Intermediate	en	Experiment
33	Double Trouble: A Twin Study	6 dual	Health Sciences	"Double Trouble: A Twin Study" is an experiment which explores the impacts of genetics on a person's	Intermediate	fr	Experiment
40	Cleaner Toothbrush	7	Health Sciences		Intermediate	en	Experiment
42	Don't Smoke	6 dual	Health Sciences	The project involves showing the effects of smoking on the respiratory system by using a pump, cotton	Intermediate	fr	Experiment
49	Sugar vs. Taste	6 dual	Health Sciences	In our experiment we wanted to show people that they can still enjoy their favorite desserts, but at the	Intermediate	en	Experiment
55	Quelle langue a le plus de bacterie?	6 dual	Health Sciences	Le question que nous avons demander est, "Quelle langue a le plus de bacterie? Les chats, les chiens ou	Intermediate	en	Experiment
56	The Foamy Fidget	6 dual	Health Sciences	We developed a fidget that assists students in their focus, while being able to write with it. We tested this	Intermediate	en	Experiment
58	Whiten Well?	6	Health Sciences	Many toothpastes advertise that they "whiten expertly" or "make your smile shine", but do they	Intermediate	en	Experiment
60	Making airplane food taste better	6	Health Sciences	For my project I wanted to see if sound affects your taste, I figured out that the younger age groups were	Intermediate	en	Experiment
70	One-4-All	6	Health Sciences	For my project, I chose to create a product that could be multi-purpose. I wanted it to be a shampoo,	Intermediate	en	Innovation
71	Time Flies	6	Health Sciences	I wanted to find out if peoples perception of time changes when playing on a screen. Participants were	Intermediate	en	Experiment
74	A Brush With History	7	Health Sciences	I was testing natural substances used by the First Peoples as well as Colgate toothpaste to see which	Intermediate	en	Experiment
76	Say The Magic Words!	7	Health Sciences	My project looks at the power of 19 magical words. These words are: "I am giving you this puzzle	Intermediate	en	Experiment
77	How do you see photo's	7	Health Sciences	I was seeing how different photo filters show details in photo's. My question was which filter works the best. I	Intermediate	en	Experiment
78	Don't Fear the Kefir	7 dual	Health Sciences	Our project is about kefir, how it is made and what the health benefits are. We wanted to see which type of	Intermediate	en	Experiment
80	Bandaged Balloons	7	Health Sciences	Stitches are perpendicular to a wound because they provide the greatest support to oppose the force that	Intermediate	en	Experiment

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83	Seatbelt Saver?	6	Health Sciences	Remembering your young children in your car when you park is important. I wanted to test if unbuckling	Intermediate	en	Experiment
107	Eye Prefer Blue	8	Health Sciences	My project was asking if girls of the ages 13-14 think that blue eyes are more beautiful.I thought I would	Junior	en	Experiment
111	Les Ages vs Les Hautes Frequences	8	Health Sciences		Junior	fr	Experiment
118	Les Habitudes Nerveuses	8	Health Sciences	For my project, I chose to research and test nervous/stress habits. Throughout middle school, I	Junior	fr	Experiment
119	Sniff, Sniff, Whiff	8 dual	Health Sciences	in this project, we tested which scent removal techniques/products work best on hand sanitizer and	Junior	en	Experiment
126	Who's Nicer?	9	Health Sciences	For my science fair project I tested the question: Do high school girls let appearance impact their	Junior	en	Experiment
127	Antibiotic Resistance	9	Health Sciences	There has been a shocking number of bacteria strains that have mutated and resisted against the	Junior	en	Experiment
128	Comment souviens-tu?	8 dual	Health Sciences	Students in our school were asked to remember lists either when told the words, shown a written list or	Junior	fr	Experiment
141	Technologies effect of Perception of Time	10	Health Sciences	I tested how people's perception of time changed while engaged in a task, with or without technology. I	Senior	en	Experiment
143	Applications and Synthesis of ZnO quantum dots	11	Health Sciences	This study is the demonstration of one of the applications of ZnO quantum dots synthesized by the	Senior	en	Experiment
145	How false memory depends on different functions	11	Health Sciences	I am going to have four participant groups. Groups A and B will watch a car crash video and will be asked	Senior	en	Experiment
147	Raw Cow's Milk!	11	Health Sciences	My project is about raw cow's milk. I asked the question: is raw milk safe for human consumption if it	Senior	en	Study
149	Communication Techniques to Reduce Parent Resistance Towards Non-Antibiotic Treatment	12	Health Sciences	To assess the effects of non-minimizing and specific communication techniques in reducing parent	Senior	en	Experiment

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3	Memory and heat	5	Life Sciences	How heat affects memory performance	Elementary	en	Experiment
5	Salt vs Fresh: Which has the most bacteria ?	4 dual	Life Sciences		Elementary	en	Experiment
7	Testing Water Qualities	4 dual	Life Sciences		Elementary	en	Experiment
10	Can freshwater aquatic plants survive on land?	5	Life Sciences		Elementary	en	Experiment
22	Moody Blueberries	5	Life Sciences	Have you ever noticed blueberries change colours? The skin of blueberries is filled with a pigment called	Elementary	en	Experiment
24	Plant Powered Energy	5	Life Sciences	My project is Plant Powered Energy. I tested Pears, Oranges, Limes and Potatoes to see witch one	Elementary	en	Experiment
25	The Genders Face Off	5	Life Sciences	My question is it necessary to split boys and girls into different sports leagues before puberty. I have	Elementary	en	Experiment
47	Man's Best Friend but do they Listen?	5	Life Sciences	How many times do you need to repeat a command to a dog with a reward before they will learn the	Elementary	en	Experiment
87	Thrips the destructive pests	5	Life Sciences		Elementary	en	Experiment
26	Amethyst It Up	6	Life Sciences	Tested to see if amethyst would help plant growth.	Intermediate	en	Experiment
29	Don't Be Salty 'Bout It	6 dual	Life Sciences	Our project is about testing if MSG could one day replace salt as a seasoning. We tested this by feeding	Intermediate	en	Experiment
51	Grow...Mold...Grow	6	Life Sciences	For science fair my question was "How does cold, room temperature, and heat affect mold growth on	Intermediate	en	Experiment
52	Comment la temperature de l'eau affecte des plantes?	6	Life Sciences	My project assesses whether or not the water temperature affects seed growth. I test the plant	Intermediate	fr	Experiment
53	Quelle genre de musique préfèrent les radis?	6 dual	Life Sciences	For this experiment we planted radish seeds and then played music while they grew to see if different kinds	Intermediate	fr	Experiment
57	WATER SOURCES - DO PLANTS CARE	6	Life Sciences	My project is about how do different types of water effect plant growth. I chose to use garlic cloves,	Intermediate	en	Experiment
59	The Power of Ethylene	6	Life Sciences	My project looks at the Ethylene including:what it is, how it works, how fruits are affected by it, how people	Intermediate	en	Experiment
63	The "5 second" rule - fact or fiction?	6 dual	Life Sciences	Our project is about the 5 second rule, and if it's true or not. What we did to prove our hypothesis, which is	Intermediate	fr	Experiment
65	Dominating Brain Dominance!	6	Life Sciences	In this project, I determined who in my class was left brained or right brained by conducting four tests to	Intermediate	en	Experiment
67	Organic Mason Jar Fish Garden	6	Life Sciences	In this experiment I will grow basil plants without soil (hydroponics). I will also determine if having fish in	Intermediate	en	Experiment
75	Aquaculture vs agriculture and hydroponics	7	Life Sciences	My science fair projects is on plant growth in soil, on fish water and in tap water. 25 seeds were planted in	Intermediate	en	Experiment
103	Bactérie vs. UV Lumière	8 dual	Life Sciences	Bacteria samples were collected from various public sources including (1) a gas station toilet flush handle;	Junior	fr	Experiment

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109	Read Speed	8 dual	Life Sciences	In this project, our question was "Does the screen of what you read effect the speed and how much you	Junior	en	Experiment
112	Organs and Stem Cells	8	Life Sciences	I am doing a study project about the possibility of using stem cells to make human organs. I researched	Junior	en	Study
121	Est-Ce Que Les Chiens Sont Gauchetiers ou Droitiers?	8 dual	Life Sciences	Nous avons teste si les chiens généralement utilisent leurs patte droite ou gauche pour obtenir leur	Junior	fr	Experiment
144	Cytogenotoxic effects of local stormwater on Allium cepa L. : A future perspective	11	Life Sciences	The use of chemicals that accumulate in the environment is increasing in Victoria. These pollutants	Senior	en	Experiment

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8	Speed Battle	4 dual	Physical and Mathematical Sciences		Elementary	en	Experiment
9	That's the Way the Ball Bounces	5	Physical and Mathematical Sciences		Elementary	en	Experiment
13	MAY THE MAGNETIC FORCE BE WITH YOU	5 dual	Physical and Mathematical Sciences	We wanted to know what type of magnet picks up the most paper clips? We used a north and south magnet	Elementary	en	Experiment
14	Pluto : Is it a planet in our solar system?	4	Physical and Mathematical Sciences	A review of scientific facts regarding the planetary status of Pluto and where it lies in our solar system	Elementary	en	Study
15	Balloon experiment soda/vinegar	4	Physical and Mathematical Sciences	grace will be attempting to blow up a balloon using baking soda and vinegar in a 2 litre bottle.	Elementary	en	Experiment
45	Regularly unleaded? Investigation Fluffy and Fido's toys.	5	Physical and Mathematical Sciences	An investigation of presence of lead in common pet toys.	Elementary	en	Experiment
85	Prime Power	5 dual	Physical and Mathematical Sciences	Exploring patterns in number sets, like prime numbers and random numbers.	Elementary	en	Experiment
86	Speedy Science	5	Physical and Mathematical Sciences	Testing how the placement of weight and aerodynamics affects the time it takes for a Kub Kar	Elementary	en	Experiment
28	Musical Waves: Understanding the Physics of Sound	6	Physical and Mathematical Sciences	How sound works and how to make different music? I explore the physics of sound by visualizing different	Intermediate	en	Experiment
36	Thermal energy storage using phase change material	6	Physical and Mathematical Sciences	The need for thermal energy storage for renewable energy applications and the concept of the heat,	Intermediate	en	Experiment
37	Gummy Growth	6 dual	Physical and Mathematical Sciences	Testing gummies in more than one liquid	Intermediate	en	
38	Eye Catching Ears	6	Physical and Mathematical Sciences	My project evaluates which of three types of audio devices does the best job of blocking sound. While	Intermediate	en	Experiment
39	The Art of Sound	7	Physical and Mathematical Sciences	My project is about Chladni Plates. They are normally a metal plate attached to a base. When a violin bow it	Intermediate	en	Experiment
43	The Crater Creator	6	Physical and Mathematical Sciences	Asteroids have hit the moon for billions of years. The goal of my project was to study how changing	Intermediate	en	Experiment
50	Crazy CRYSTALS	6	Physical and Mathematical Sciences	Ma question: Comment faire pousser les meilleurs cristaux?	Intermediate	fr	Experiment
61	Sugar Snake	6	Physical and Mathematical Sciences	My project is a carbon sugar snake that is made by sand and fire, when the fire burns it takes the sugar	Intermediate	en	Experiment
69	Crystal Chemistry	6	Physical and Mathematical Sciences	If the saturated solution is placed in an ice bath then the quickest crystal growth will occur because a	Intermediate	en	Experiment
72	Induction Vs Electric Heating	7 dual	Physical and Mathematical Sciences	We are testing to see if Induction Heating works faster and more efficiently then Electric Heating.	Intermediate	en	Experiment
73	Cube or be Cubed	7 dual	Physical and Mathematical Sciences		Intermediate	en	Experiment
81	Bubble Anatomy	7	Physical and Mathematical Sciences	My project is discovering basic bubble anatomy and finding out what ingredient can improve a standard	Intermediate	en	Experiment
88	Watts The Best Battery	7 dual	Physical and Mathematical Sciences		Intermediate	en	Experiment

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90	MagLev	7 dual	Physical and Mathematical Sciences	This project is about exploring MagLev, were wondering if we can make a magnet levitate for 10	Intermediate	en	Experiment
93	Fibonacci in Fruits	7	Physical and Mathematical Sciences	Our project is about the fibonacci sequence and how its found in fruits.	Intermediate	en	Experiment
95	Paint from Nature	7	Physical and Mathematical Sciences	I set out to create natural paint as a substitute for harmful chemical paints. I collected samples of Red	Intermediate	en	Innovation
100	What Is In Your Glass?	7	Physical and Mathematical Sciences	My aim is to find out which type of water (tap, rain, bottled etc.) is the softest. That way people know	Intermediate	en	Experiment
108	L'analyse spectrale des ondes sonores	8	Physical and Mathematical Sciences	I wanted to know how the length and diameter of a PVC tube affects the fundamental frequency of its	Junior	fr	Experiment
116	To Sweep or Not to Sweep? The Effects of Sweeping on Curling Rock Distance	9	Physical and Mathematical Sciences	A rock-throwing rig was designed and built to deliver curling stones with consistent force. Total distance	Junior	en	Experiment
120	Lids On Par	8	Physical and Mathematical Sciences	I am trying to make golf discs out of materials that would otherwise be recycled or trashed. I got four	Junior	en	Innovation
132	Using Chitosan and Gluten to Create a Biodegradable Plastic Bag	10	Physical and Mathematical Sciences	Chitosan, a fiber found in crustacean shells, was dissolved in a mixture of 10% acetic acid and sorbitol.	Senior	en	Innovation
135	Occam's Laser: A Nanocoating Absorbing the Light of a Green Laser	10	Physical and Mathematical Sciences	Even common laser pointers are strong enough to reach and interfere with the operation of an aircraft,	Senior	en	Innovation
148	Textile Effluent Remediation	11	Physical and Mathematical Sciences	The textile industries consume a substantial amount of water in its manufacturing processes, and the use	Senior	en	Innovation