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Caffeine is a naturally occurring stimulant that is found in many foods, beverages and drugs. You explore the effects of caffeine with your science fair project. How does caffeine affect your heart rate or body temperature or breathing (breathing) speed? You test the effect of a cup of coffee, caffeine pill, cola or energy drink. How does caffeine affect your typing speed? typing accuracy? Does caffeine really increase the effectiveness of other painkillers? What effect does the presence of caffeine have on other organisms, such as daphnia, zebrafish embryo development, fruit fly activity or behavior or mutation rate, etc. Does watering a plant with caffeinated water have an effect on the plant? Does watery seeds with caffeinated water affect germination? Does the method of preparing coffee (or tea) affect the total amount of caffeine in the drink? If so, what method results in a drink with the most/least caffeine? More Science Fair Project Ideas Blend Images – JGI/Jamie Grill/Brand X Pictures/Getty Images According to Parenting, some of the top 10 best science fair projects include an experiment examining which type of soda is most harmful to the teeth, the relationship between taste and smell, creating a substance that can carry solar electricity and looking at the way worms help create compost. Other good science honest projects include looking at the relationship between cars and pollution, and separating ink colors. Science fair projects rated highly by Parenthood include finding the relationship between soda and the discoloration of tooth enamel, investigating the evolutionary properties of earthworms, secreting fluids by density and experimenting to find the right solution for removing coin deposits. Another common project for school science scholarships is a project using a potato to create a battery or clock. Students can also watch how to make a solar oven using a pizza box. A model of the solar system is also a good science fair project suitable for all ages. More advanced students can create a more detailed model, including more concepts from astronomy, while younger students can focus on the colors and shapes of planets. Creating a pinhole camera for a science scholarship can help students understand how the camera works and how it was invented. Growing a crystal garden is also recommended science fair project. Blend Images - KidStock/Getty Images Helping your child choose a science fair project can be the hardest part of the whole process. Coming up with a creative idea and then figuring out how to turn that idea into an experiment or demonstration can be tricky. And of course, many teens wait for it Time. But collecting poster board, craft supplies, or equipment the night before the science fair is unlikely to come out well. Start talking to your child early about limiting the types of science fair projects that interest them the most. If you get them excited about it, they will. They. put more time and energy into creating an impressive project. Here are some creative science honest project topics and ideas to consider. There are many projects about our planet. Show the causes of acid rain, detect carbon monoxide levels throughout your home, or show why clouds are in the sky. Find inspiration in everyday things around you, such as lakes or mountains. There are many scientific fair projects that involve the solar system. You also choose a specific planet. Create a model of Mars, explain Saturn's rings, talk about mercury temperature, or discuss the distance between Venus and the sun. Forces of nature make fascinating projects. Natural disasters such as hurricanes, tsunamis, floods and droughts are interesting topics. Many teens love to create projects on volcanoes, which is especially nice when you build a model. Mysterious acts of weather, such as tornadoes, can provide interesting research, as can earthquakes. There are many interesting creatures that make for intriguing science honest projects. For example, the skeleton of a shark consists entirely of cartilage instead of bone. Chameleons change color to blend into the environment. And birds navigate their way into new environments when the seasons change. You also do a project involving your pet. Maybe your child can teach your dog a new trick or toilet train to your cat. There are many scientific fair projects that involve plants. Create a diagram of photosynthesis or conduct an experiment to see which conditions best grow seeds. You even research how fertilizer or weedkiller works. Temperature affects us every day, but we often don't think about why the temperature changes. Discover the temperature and why warm fronts move in or why cold fronts make us shiver. You also explore the body temperature. Show how and why your body temperature changes throughout the day. Remember, science also involves psychology. Examine the different parts of the brain, or conduct an experiment to test the working memory skills of your friends and family. There are many science fair projects on how to minimize pollution and go green. For example, do some research on global warming. Discuss why some people think it's a big problem, while others don't believe in it at all. You could also talk about hydropower. Many scientists cannot agree on whether it really is a green form of energy or not. Make a compost heap and explain how composting works, or show what happens when paper is recycled. Thanks for your feedback! What are your concerns? Hero Images/Getty Images Helping your child with their science fair project is a lot easier once they decide what kind they want to do it. There are five basic types of scientific projects to choose from. A research science fair project is a popular option. It involves using the scientific method to ask a question, establish a hypothesis and then make an experiment to test the hypothesis. For example, it can be the question: Do plants grow better when fertilizer is used? and assume a possible answer. An experiment is then developed to determine the answer. Introduce your child to the concepts of having a control group, limiting variables, measuring and determining the meaning of results. The key will be to find a question that interests your child and an appropriately easy way to test it in the amount of lead time you have. It may also be necessary to explain that negative results also have scientific value. A research project is actually a scientific report. It involves collecting information on a specific topic and presenting what you have discovered or learned. It is usually best to start with a question for these projects as well. For example: How does El Niño affect weather patterns? You discuss different sources of information with your child and who are considered more reliable or authoritative to guide them as they gather research for their report. Discuss the need for your child to make the presentation in their own words instead of copying what they find. This type of project shows a well-known scientific principle, such as the earth's magnetism, the power of gravity or surface tension. Often it reconstructs a classical experiment that originally proved the concept. This type of project may not be advanced enough for older students. A model science fair project involves building a model to demonstrate a principle or concept. Ideally, what your child builds will be unique, but there are classic projects like the baking soda volcano, or the Mentos and Diet Coke volcano. The challenge here will be to come up with something your child can build that will be unique. It's a good idea to build a model that interests your child, but is not one that other students build. This type of project can be either very interesting or very boring, and it can't be considered advanced enough for older students. It consists of a collection of such items, often from natural sources, and descriptions of them. A collection of leaves can be very beautiful, but not very informative. It is important that your child's collection provides an overview or insight into a topic. For example, looking at leaves from different neighborhoods and pointing to variances in appearance or growth based on sunlight, pollution, etc., in each neighborhood involves some scientific research as well. Choosing a science fair project can help interest your child in science and technology. You need to make sure they have selected one that can be done within the limits of your child's time, cost and skills. Thanks for your feedback! What are your concerns? Verywell Family only uses sources of quality, including peer-reviewed studies, to support the facts in our articles. Read our editorial process to learn more about how we accurately, reliably, and reliably monitor and maintain our content. Lan YC. National Association for the young children. 10 Tips to support learning children's science. Learn.

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