



STEAM Project Criteria – Elementary Level

Project Ideas:

Design something so that is it new or improved!

Resource: <http://pbskids.org/designsquad/>

Make the BEST spaceship, car, train, or airplane (think about speed, acceleration, velocity, friction)!

Resource: see “Engineering Design Process”

Create animation, a game, or an app using computer coding!

Resource: <https://www.khanacademy.org/computing/computer-programming/programming>

Recycle items and use them in a new way that helps our planet!

Use the scientific method to learn more about physical, earth, life, and/or space science!

Resource: see “Steps of Scientific Method”

Do you love art? Create something new using computer software (graphic design)!

Do you want to learn more about the science behind the food you eat? Investigate food and how it helps your body stay strong!

-Try to involve as many STEAM areas in your project as possible! Be creative!

-Are you still not sure what to do? Go here! <https://www.google-science-fair.com/springboard/en/>

-Projects should pose a problem or a question. Then you can investigate your question or come up with a design to solve the problem.

-You might want to use a key tool to help you – computer software, a microscope, items around your house and more.

-Try to connect it to the real world! Look for patterns, cause and effect, cycles, structure, function, stability and change.

Conduct Research

Learn about the subject(s) involved with your project; what do people already know?

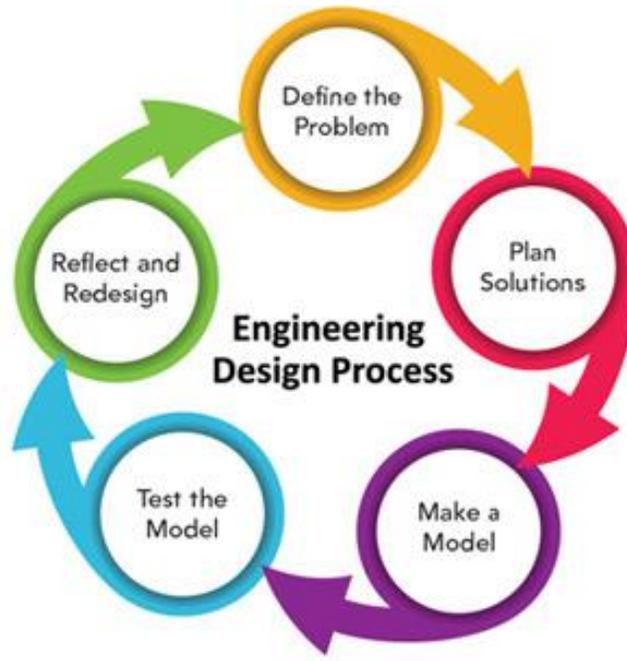
Design Your Project

Collect data if that applies. What did you learn through this process? Did it go the way you planned? Why or why not?

Project Presentation

You will be presenting your project! Remember these important communication skills - make eye contact, speak clearly and with enthusiasm, use gestures, pace yourself and have fun! Be ready to have a conversation with others about your project and sell your idea!

Feel free to use posters, graphs, notes, iPads, laptops, smart phones or other visual aids to help you inform others about what you learned!



Steps of the Scientific Method

