TeachEngineering.org

Ignite STEM Learning in K-12

IMPROVE

Redesign as needed

Discuss how you could improve your solution. Make revisions. Draw new designs. Iterate your design to make your product the best it can be.

And now, REPEAT!

ASK

Identify the need and constraints

Engineers ask critical questions about what they want to create, whether it be a skyscraper, amusement park ride, bicycle or smartphone.

RESEAR CH

Investigate the problem

This includes talking to people from many different backgrounds and specialties to assist with researching what products or solutions already exist, or what technologies might be adaptable to your needs.

TEST

Evaluate the prototype

Does it work? Does it solve the need? Communicate the results and get feedback. Analyze and talk about what works, what doesn't and what could be improved.

TeachEngineering.org ENGINEERING

DESIGN PROCESS

IMAGINE

Develop possible solutions

You work with a team to brainstorm ideas and develop as many solutions as possible. This is the time to encourage wild ideas and defer judgment! Build on the ideas of others! Stay focused on topic, and have one conversation at a time!

CREATE

Build a prototype

Building a prototype makes your ideas real! These early versions of the design solution help your team verify whether the design meets the original challenge objectives. Push yourself for creativity, imagination and excellence in design.

PLAN

Select a promising solution

For many teams this is the hardest step! Revisit the needs, constraints and research from the earlier steps, compare your best ideas, select one solution and make a plan to move forward with it.



Engineer a brighter future.
Start exploring today at **teachengineering.org**

BROUGHT TO YOU BY

FOLLOW US ON SOCIAL MEDIA















