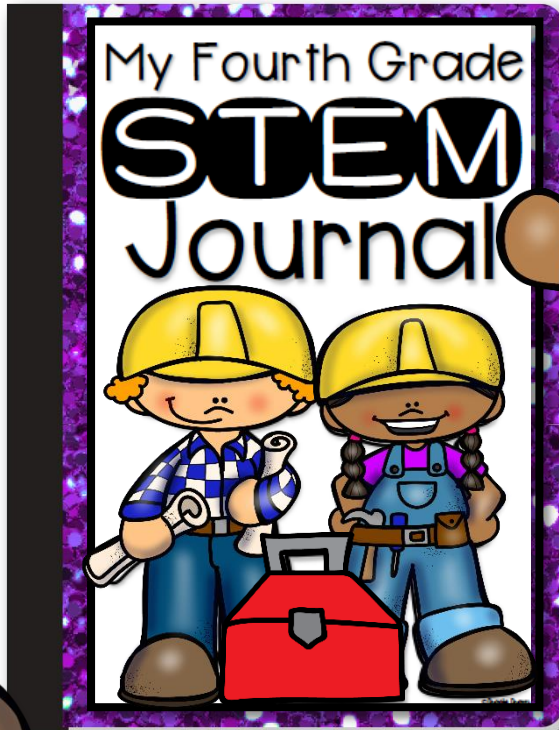


Fourth Grade

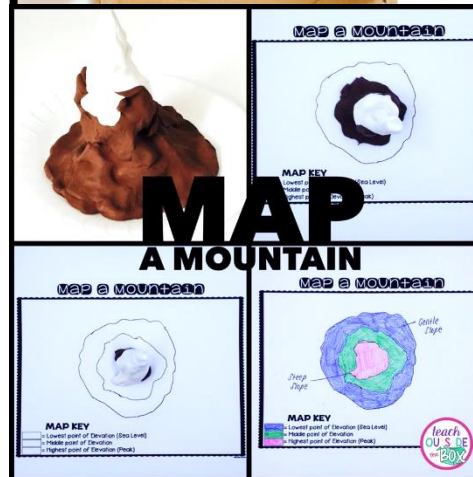
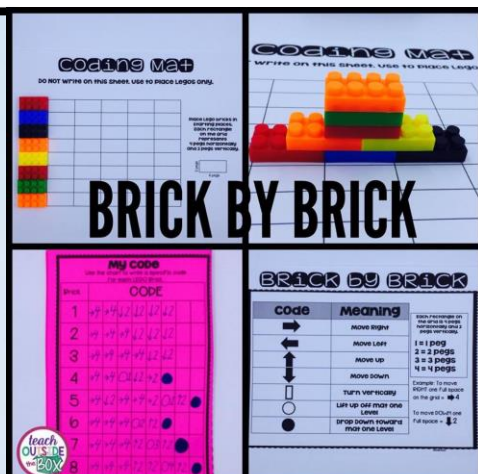
STEM



by Brooke Brown



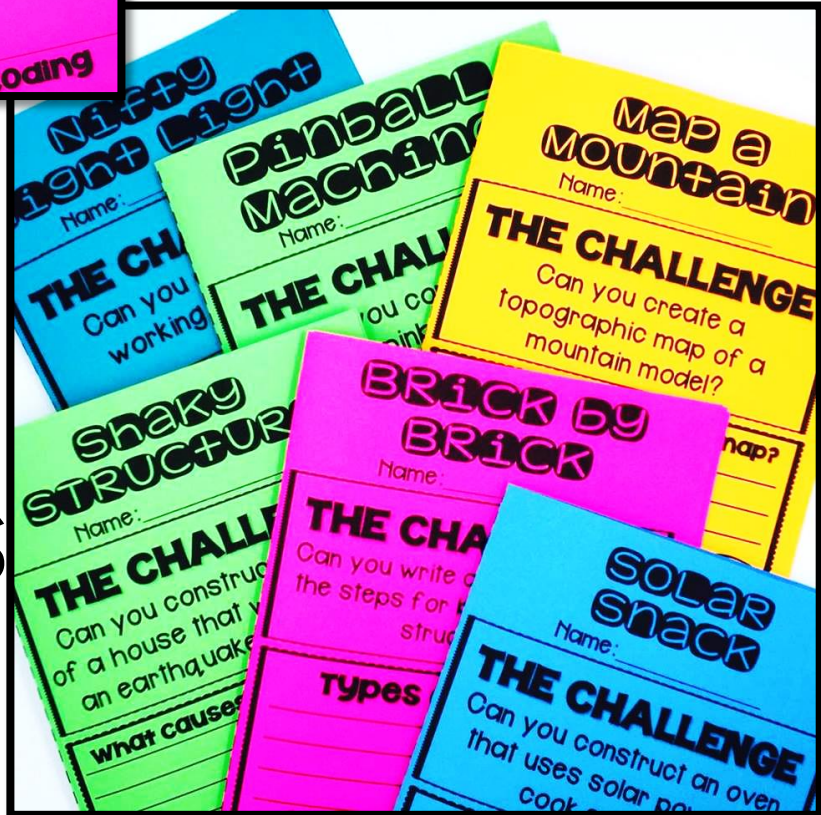
6 NGSS Aligned Challenges for Science and Engineering, designed specifically for 4th Graders!



Teacher charts



Student Booklets



My Fourth Grade STEM Journal



BRICK BY BRICK

Types of Codes

How codes are transmitted

THE CHALLENGE

Can you write a code to show the steps for building a house?

Shaky STRUCTURE

What causes earthquakes?

THE CHALLENGE

Can you construct a model of a house that will withstand an earthquake simulation?

Solar Snack

What does solar power look like?

THE CHALLENGE

Can you construct an oven that uses solar power?

Map a Mountain

What are contour lines?

THE CHALLENGE

Can you create a topographic map of a mountain?

Pinball Machine

How is speed related to energy?

THE CHALLENGE

Can you construct a working pinball machine?

Nifty Nifty Nifty

What is a closed circuit?

THE CHALLENGE

Can you construct a working circuit?

our pinball Machine

How is speed related to energy?

How does energy change when object moves?

What our pinball machine needs

Label the parts and post values

INSTRUCTIONS

Don't forget to make a title for the experiment and a hypothesis.

My Solar oven

Don't forget to make a title for the experiment and a hypothesis.

INSTRUCTIONS

Don't forget to make a title for the experiment and a hypothesis.

How we constructed our pinball Machine

How speed and energy are used in our pinball Machine

Things that can be solar-powered

How My Solar oven works

