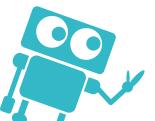


KEVA Planks

Ramp Up

Build a ramp that something round can roll down. How fast can you make it roll?







Materials:

- KEVA planks
- Something round from your classroom
- Other supplies for ramp building from your classroom (optional)

Quick Start:

- Gather as many KEVA planks as you can.
- 2. Start by stacking one KEVA plank on top of another. Make a set of "stairs" using only the KEVA planks. How steep of a ramp can you make?
- Make sure that you put KEVA planks over the top of the KEVA plank stacks. This makes a ramp instead of stairs.
- Test out your ramp. Does it work? Can you make it longer? Wider? Safer? Smoother?

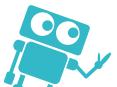
Hints and Tips:

- If you're not sure where to begin, start by making stairs using your KEVA planks.
- Where can we find ramps in real life?
 Talk about it with an adult or someone you know and look at pictures of real-life ramps to help you build your own.

Extended Challenges

Science: Find a variety of round objects to test using your ramp. Which object moves down the ramp the fastest? Slowest? Why do you think that is?

Social Studies: Find a ramp that helps someone or something in your school. Draw a picture of that ramp and talk to an adult about why the ramp is important.

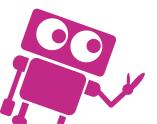




KEVA Planks

Name It!

Make your name using only KEVA planks.





Materials:

KEVA planks

Quick Start:

- Gather as many KEVA planks as you can.
- How do you spell your name? Build your name letter by letter.
- Can you make a letter uppercase? Lowercase? Try practicing different letter shapes!

Hints and Tips:

 Start by making the letter shapes with just a few KEVA planks. Then, build on from there. Can you make them closer to 3D shapes?

Extended Challenges

English/Language Arts: What is a word you have recently learned the definition of? Spell out that word.

Social Studies: Think of a famous person you admire. Find out how to spell their name, and build it using KEVA planks.







Patterns with KEVA Planks

Can you make a pattern using your KEVA planks? What shapes will you include in your design?







Materials:

- KEVA planks
- Additional classroom materials (optional)

Ouick Start:

- 1. Gather as many KEVA planks as you can.
- Make a pattern with your KEVA planks. Will it be 2D or 3D?

Hints and Tips:

 Did your pattern creation fall down or get messed up? Just keep trying, testing, trying and testing some more engineers call this "iterating."

Extended Challenges

Art: Draw the pattern you made using paper and coloring supplies. Add to it if you would like!

Math: How many planks did you use to make your pattern? Count them all! Can you add more?





KEVA Planks

Lovely Library

Build a library that you would want to explore. How many rooms will it have? Will there be a reading fort?





Materials:

- KEVA planks
- Additional classroom materials (optional)

Quick Start:

- Gather as many KEVA planks as you can.
- Think about what you want in your dream library. How many different rooms will there be and how will you get into each room?
- Start to build your library. How will you stack your planks? Will it be a bird's eye view of your library or will you make your library have a roof?

Hints and Tips:

- Triangles are strong shapes and crisscrossing the planks helps too. Try some different techniques to see what works the best.
- Did your library structure fall down? Just keep trying, testing, trying and testing some more–engineers call this "iterating."

Extended Challenges

English/Language Arts: What books would you make sure to include in your library? Make a list of your favorites and tell an adult or a friend about it.

Science: Instead of a library, build your dream bedroom.

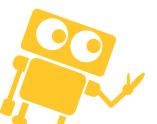




KEVA Planks

Tallest Tower

Build the tallest tower you can.





Materials:

KEVA planks

Ouick Start:

- 1. Gather as many KEVA planks as you can.
- 2. Start to build your tower. How will you stack your planks to make the tower strong?
- 3. Does it stay standing? Can you do anything to improve your tower?

Hints and Tips:

- Triangles are strong shapes and crisscrossing the planks helps too. Try some different techniques to see what works the best.
- Did your tower fall down? Just keep trying, testing, trying and testing some more-engineers call this "iterating."

Extended Challenges

Science: Can you make your tower using different shapes? Try a hexagon- or triangle-shaped tower! Build a tower that is a single plank wide. How tall can you make it before it falls?

Science: Can you make a window in your tower? A door?

