

10 Day STEM Challenge

1. Build your name in 3D.
2. Build an animal enclosure for one of your teddies or toy animals.
3. Make a boat that can float.
4. Build a house of cards
5. Make a chain reaction.
6. Make a marble maze.
7. Build a bridge that can hold some toy cars.
8. Make a robot from recycled materials.
9. Build a tower as tall as yourself!
10. Make a paper aeroplane that can fly at least 2 metres.



Suggested Videos

- Listen to the story 'Rosie Revere, Engineer' by Andrea Beaty, read from SPACE!
<https://youtu.be/r5yZ8K7pb0Y>
- See Animal Engineers at work:
<https://youtu.be/wYPQLsS3ST8>
- See how boats and ships float:
<https://youtu.be/CvWrkxzCiaY>
<https://youtu.be/jj-vKtmtljw>
- If you find it tricky to build a house of cards, watch this video:
<https://youtu.be/IOaFwwLyTRo>
- How do chain reactions make a machine work?
<https://youtu.be/5mGn6mrlrfw>
- Build a bridge: <https://youtu.be/oVOnRPefcno>
- How to build a taller tower:
<https://youtu.be/eR2OR3coiX4>
- How to make a simple Paper Airplane:
<https://youtu.be/7KPaxKUDj6I>



Suggested Materials for STEM Challenges

- Lego
- Jenga Blocks
- K'nex
- Cocktail sticks
- Mini marshmallows
- Play Dough
- Paper or plastic cups
- Playing cards
- Dominoes
- Lollipop sticks
- Pegs
- Paper plates
- Newspaper
- Pipe cleaners
- Straws
- Empty toilet rolls
- Paper and card
- Sellotape or masking tape
- Glue
- Cardboard boxes
- Egg cartons
- Paper clips
- Tin foil
- String
- Elastic Bands
- Ribbon
- Bottle tops





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