

Sfida STEM

Category 1 : Year 1 & 2

Blooming Flowers



Science **T**echnology **E**ngineering **M**athematics

materials · measurement · shapes



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Instructions:

- Design and construct your own Blooming Flowers.
- Use paper.
- Colour the paper flowers.
- Fold the paper flowers in a circle before placing them in a bowl of water.

Suggested materials:

(Other similar materials may be used)

- Access to a printer (optional)
- Paper
- Scissors
- Pencils/Crayons/Markers
- Bowl of water

Top tips:

- Download the template (optional): [Flower Shapes | Free Printable Templates & Coloring Pages | FirstPalette.com](#)
- Draw your design on paper and cut it out.
- You may use this video link for extra help: [Just Add Water - Blooming Flower Trick - YouTube](#)



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Category 2 : Year 3 & 4

Windmill



Science Technology Engineering Mathematics

materials · movement · forces



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Instructions:

- Construct a windmill using recycled materials (any size).
- The windmill must have the spinning blades.
- You may paint the windmill.

Suggested materials:

(Other materials may be used)

- Shoe box
- Milk cartons
- Cereal boxes
- Glue
- Sticky tape
- Kebab sticks / popsicle sticks
- Straws
- Caps (from soft drinks or water bottles)
- Cardboard
- Toilet paper tubes
- Butterfly pins/clips
- Paint / colours

Top tips:

- Do some research to gather ideas on how windmills work and what are they used for.
- Keep the moving part (blades) as simple as possible.



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Category 3 : Year 5 & 6

Green House



Science **T**echnology **E**ngineering **M**athematics

materials · shapes · weather · plants · habitats · adaptation



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Instructions:

- Design and build a Green House (any size).
- The Green House must be built with recycled materials.

Suggested materials:

(Other materials may be used)

- Shoe boxes
- Milk cartons
- Cereal boxes
- Glue
- Sticky tape
- Kebab sticks
- Straws
- Plastic bags / used plastic covers
- Small post with soil
- Seeds



Top tips:

- Do some background research on how a Green House works.
- Use your creativity!



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