

Sfida STEM

Category 1 : Year 1 & 2

Save the Egg



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

materials · measurement · shapes



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Sfida STEM

Instructions:

- ☐ Wrap an egg so well that it survives a drop down the egg chute (kitchen rolls/ tubes).
- ☐ Use different materials to wrap your eggs and test each material.

Suggested materials:

(Other similar materials may be used)

- ☐ Kitchen roll (tube for the chute)
- ☐ Paper
- ☐ Scissors
- ☐ Pencils/Crayons/Markers
- ☐ Bubble wrap
- ☐ Plastic
- ☐ Tissue paper
- ☐ Eggs (plastic/ chocolate/ hard boiled eggs)



Top tips:

- ☐ Take your time and test each material.
- ☐ Take pictures and/or video to show each tested material.



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Category 2 : Year 3 & 4

EGGY ZIP LINE



Science Technology Engineering Mathematics

materials · movement · forces



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SCIENCE CENTRE
FEMROKE MALTA

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Instructions:

- ☐ Build a harness to transport an egg down a zip line.

Suggested materials:

(Other materials may be used)

- ☐ String
- ☐ Runner bands
- ☐ Thin rope
- ☐ Fishing line/ nylon thread
- ☐ Pipe cleaners
- ☐ Plastic cup
- ☐ Sticky tape
- ☐ Kebab sticks / popsicle sticks
- ☐ Straws
- ☐ Cardboard
- ☐ Toilet paper tubes
- ☐ Paint / colours
- ☐ Eggs (plastic/ chocolate/ hard boiled)



Top tips:

- ☐ Try changing the type of wire used to make the zip line for further investigation.
- ☐ This is a great activity for learning about friction.



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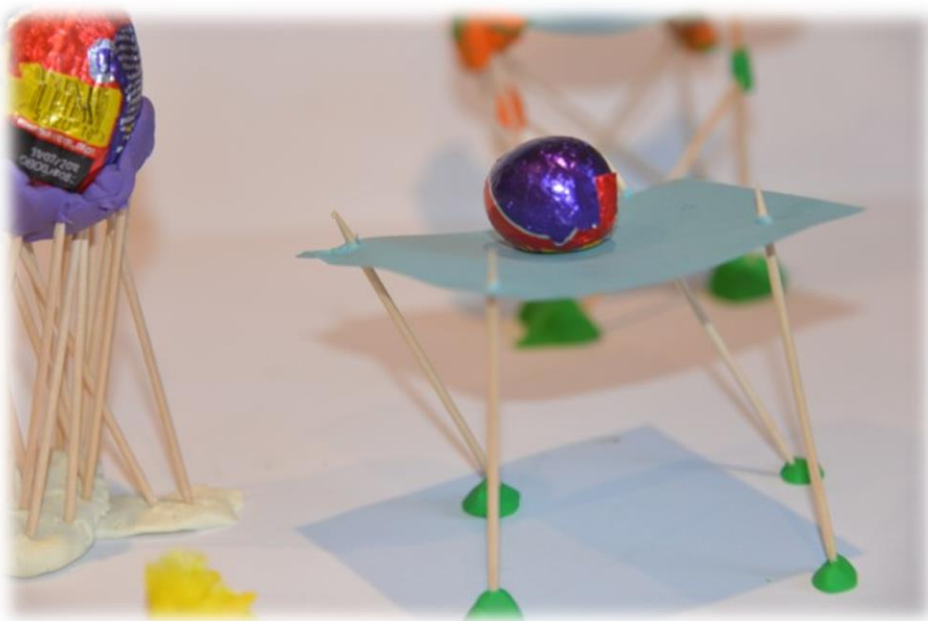


SCIENCE CENTRE
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Category 3 : Year 5 & 6

EGG TOOTHPICK TOWERS



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

materials · shapes · design · structures · forces



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Instructions:

- ☐ Build a tower strong enough to support an egg using just toothpicks and plasticine. Note the Egg must be freestanding and not attached.

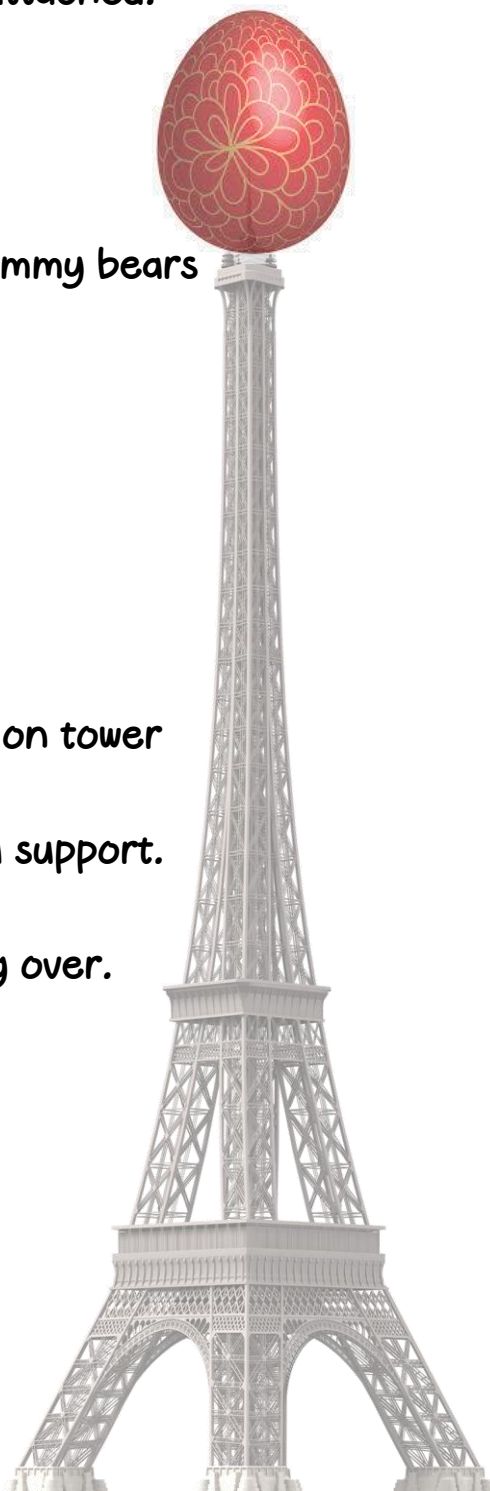
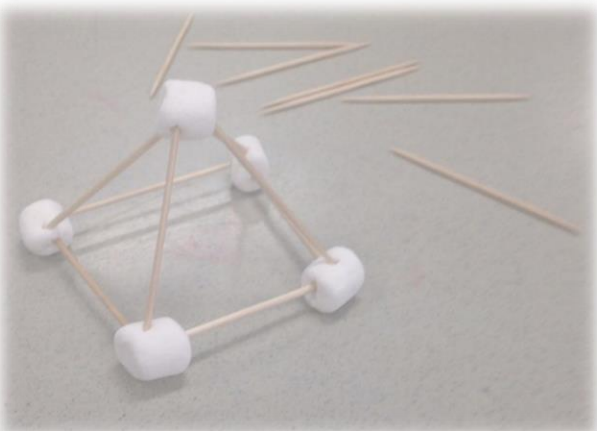
Suggested materials:

(Other materials may not be used)

- ☐ Toothpicks or cocktail sticks
- ☐ Plasticine/ blue tack/ dough/ gummy bears
- ☐ Paper
- ☐ Chocolate eggs
- ☐ Plastic eggs
- ☐ Hard boiled eggs

Top tips:

- ☐ Do some background research on tower structures.
- ☐ It has to stand up with no extra support.
- ☐ Try to use the materials above.
- ☐ Can hold the egg without falling over.
- ☐ Use your imagination!



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