

Sfida STEM

Category 1 : Year 1 & 2

Butterfly Hangout



Science Technology Engineering Mathematics

materials · mini beasts · design & technology · life cycles
· fruits



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Instructions:

- Attract these beautiful pollen carriers with a fun, quick butterfly feeder made from different materials found around the house.
- Add a spoonful of sugar to a litre of water.
- Stir until all the sugar is dissolved in water.
- Investigate and find out the perfect sanctuary for butterflies to hang out.

Suggested materials:

(Other materials may be used)

- Sugar/water
- Container-plastic/terracotta/aluminum
- Pebbles/stones
- Real/Artificial flowers
- Sponge/water
- Rope/shoelace/string
- Fruit/s



Top tips:

- Mix sugar and water to obtain a sweet solution.
- Keep in a shaded part. Do not place in direct sunlight.
- Experiment with different types of fruit!



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Category 2 : Year 3 & 4

Can you balance it?



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materials · shapes · design · structures



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Instructions:

- Print the picture in the following link. Try to balance it on the tip of a pencil.
- URL: [BalancingbutterflyPatternPage_000.pdf](http://experimentexchange.com/BalancingbutterflyPatternPage_000.pdf)
(<http://experimentexchange.com/>)

Suggested materials:

(Other materials may be used)

- Kebab sticks/pencil
- Colours
- Glue Gun / glue
- Scissors
- Paper clip/coin



Top tips:

- Research balancing things on Youtube and try out some different ideas (for example: balancing a potato on your finger).



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Category 3 : Year 5 & 6

Paper Flying Butterfly Challenge



Science Technology Engineering Mathematics

materials · measurement · shapes · air-resistance ·
streamlines



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Instructions:

- Make a flying paper butterfly.

Suggested materials:

(Other similar materials may be used)

- Paper
- Construction paper
- Marker
- Tape
- Ruler
- Paint / colours (for decoration)
- Scissors / craft knife (be careful)
- Glue
- Paperclips



Top tips:

- Observe/research how to make a paper plane, a paper butterfly and origami butterflies.
- Choose a shape that works best for you and construct a paper flying butterfly.
- Take pictures and/or video to show how your well your butterfly flies and share them with us!



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