

Solar Appreciation Day: Updraft Tower

This experiment requires adult supervision



<https://www.solar4stem.com/blog/five-easy-solar-power-experiments-for-kids-steam-stem>

Pick n Play 
School Club

WHAT YOU WILL NEED:

3 Large
Cans



Can
Opener



Paper
Clip



Sellotape



Straight Pin/
Push Pin



2 Books of the
Same Thickness



Paper



Scissors



Ruler



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INSTRUCTIONS:

1. Remove the top and the bottom of the cans (ask an adult for help).



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INSTRUCTIONS:

2. Tape the cans together to form a long tube.

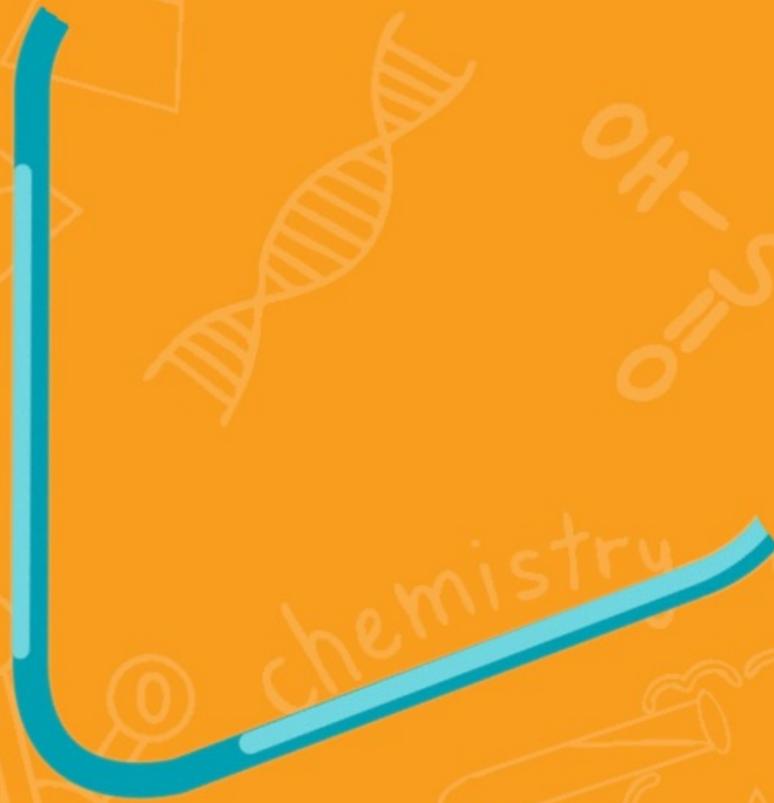


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INSTRUCTIONS:

3. Unbend the paper clip into an arch shape to fit over the can structure and tape it in place.



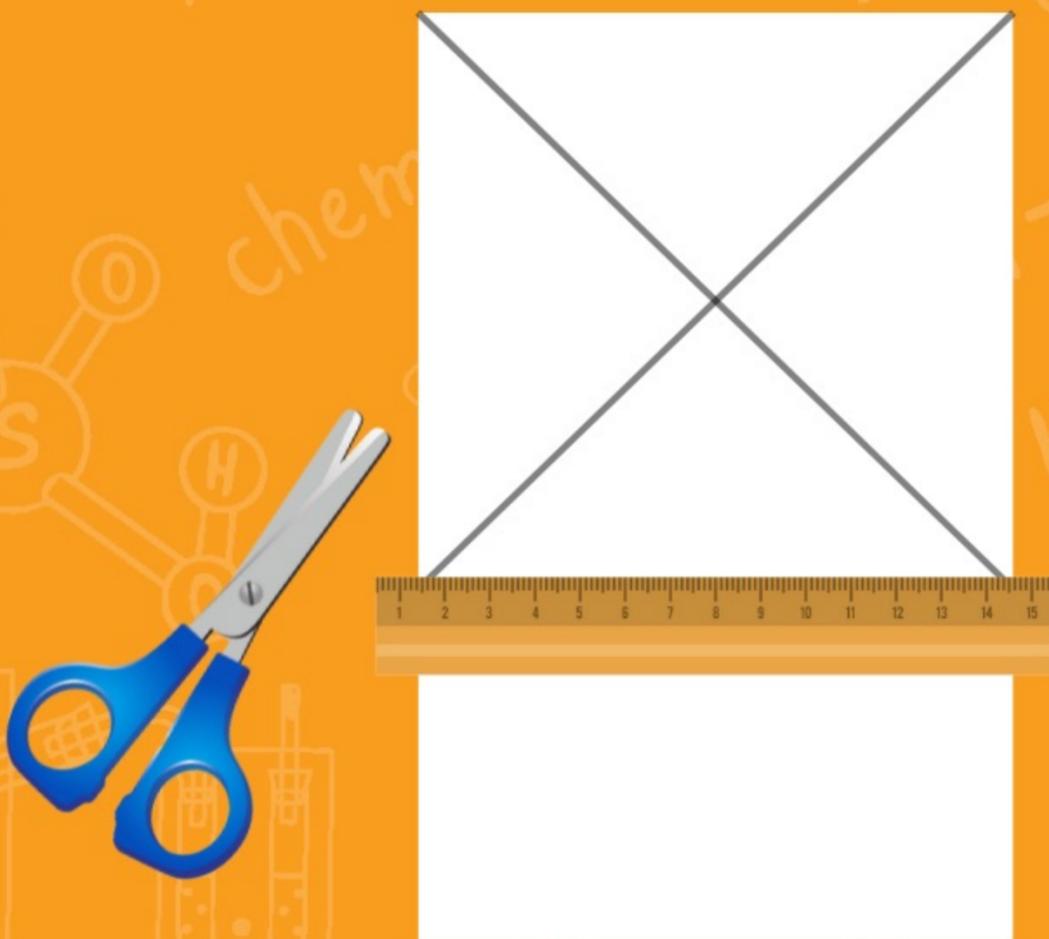
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INSTRUCTIONS:

Make the pinwheel:

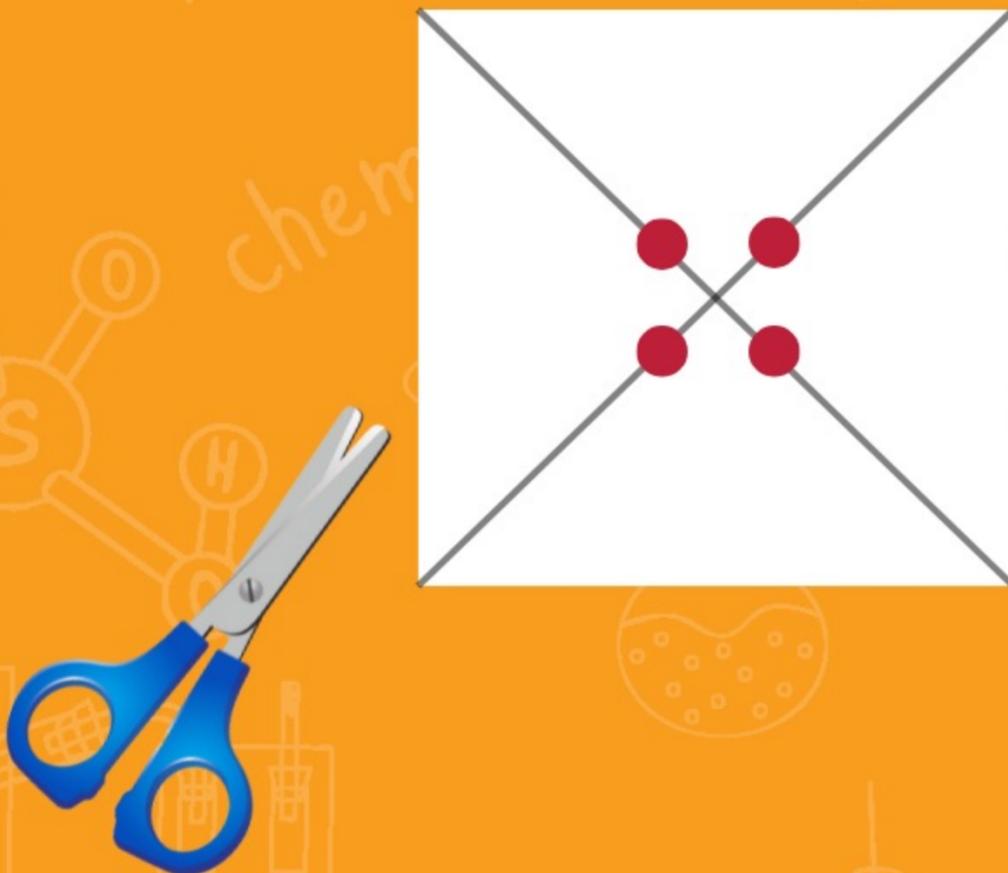
4. Setting aside your tower, take your sheet of paper and cut it into an even square. Using a ruler, draw two lines from corner to corner, forming an X shape.



INSTRUCTIONS:

Make the pinwheel:

5. Make a pencil mark about a third of the way from the centre of your X. Cut from the corners until you reach the marks.

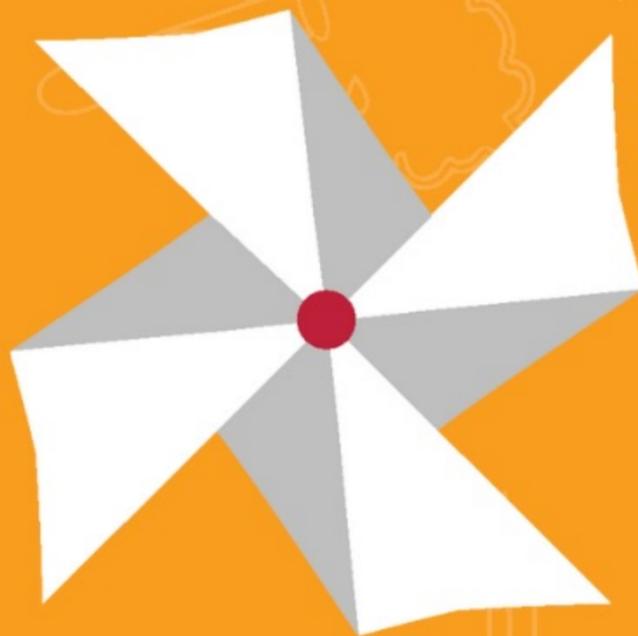


INSTRUCTIONS:

Make the pinwheel:

6. Bring every other point to the centre and stick a pin through all 4 points.

7. Roll the pin around in little circles to enlarge the hole so your pinwheel will spin freely.



INSTRUCTIONS:

8. Sellotape the pin in your pinwheel to the arch on your tower.



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INSTRUCTIONS:

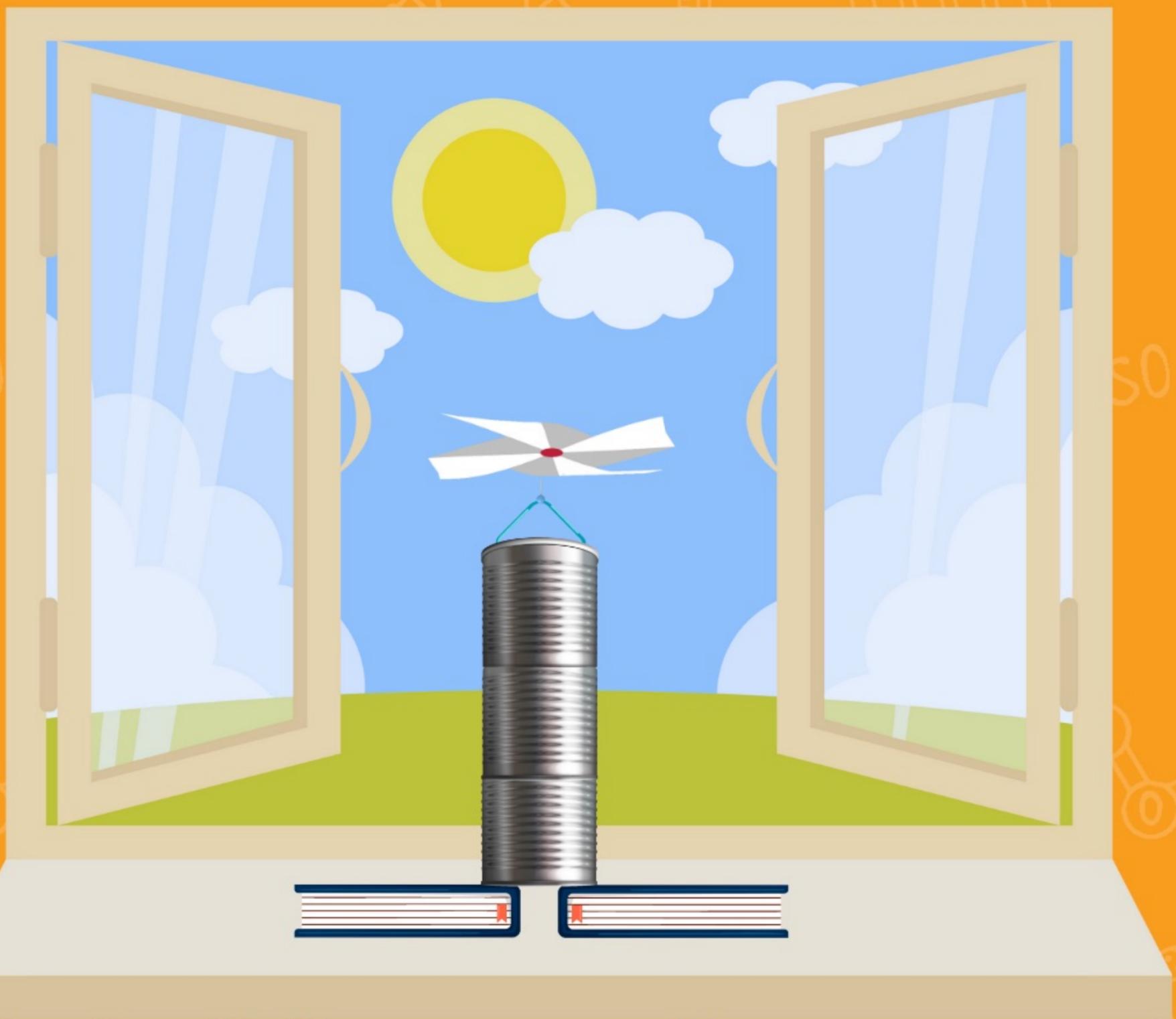
9. Place two books in front of a sunny window leaving a gap in the middle. Place your tower on top of the two separated books.



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The air inside the cans will warm from the sun and cause an upward draft urging the wheel to spin.



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