

How to Get More Out of a Lesson: Introduction to Physical Science

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A companion presentation, “How to Get More Out of a Lesson (Introduction to Physical Science)” is available at

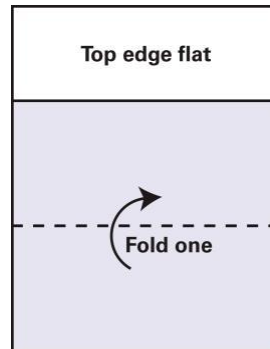
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The paper folding activity is from the student storybook, “Mr. Slaptail’s Secret,” available for download at:

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Try This...

1. Lay the paper in front of you vertically on the table.
2. Use the ruler and a pencil to draw a line across the paper, three inches from the top.
3. Fold the bottom edge of the paper up to the pencil line and crease the paper on the fold.



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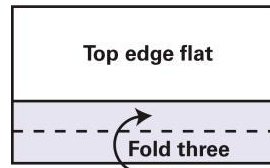
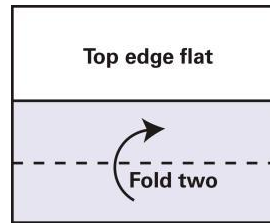
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Fold

4. Fold the bottom edge of the paper up to the pencil line a second time and crease the paper on the fold.
5. Fold the bottom edge of the paper up to the pencil line a third time and crease the paper on the fold.
6. You should have a piece of paper with a thick band of folded paper at the bottom. The thick band should be about one inch tall.



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Make a Firm Crease and Decorate

7. Flip the paper over. Hold the thick band of folded paper together so that it stays “closed.” Carefully rub the entire sheet of paper against the edge of a table.

Do this several times. This will give the whole sheet of paper a slight curve.

8. Lay the paper down so that the thick band is face down on the table. Decorate the side that is facing you.



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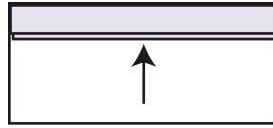
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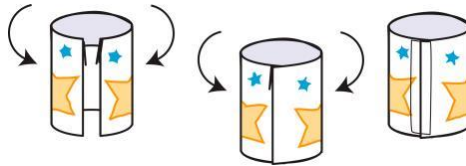
Make a Cylinder

9. Stand the paper up vertically, with the thick band at the top. The band also should be facing you.



Bring the edges of the paper together to form a cylinder. Gently slide one side of the band inside of the other.

10. Tape the seam shut.



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Let It Fly!

11. To sail your flyer, hold it at the bottom, between your thumb and fingers. The “band” end should be facing away from you. Throw the flyer overhand, like a football.



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National Science Education Standards (1996)

- Who was involved in developing the NSES?
 - Teachers; science supervisors; curriculum developers; publishers; those who work in museums, zoos, and science centers; science educators; scientists and engineers; school administrators; school board members; parents; members of business and industry; legislators and other public officials.
- Why were the NSES developed?
- All students must have the opportunity to become scientifically literate.



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Physical Science

Physical science explores the building blocks of the natural and manmade worlds.

- Matter
 - (K-4) properties of objects and materials
 - (5-8) properties and changes of properties of matter
- Energy
 - (K-4) light, heat, electricity and magnetism
 - (5-8) transfer of energy
- Force and Motion
 - (K-4) position and motion of objects
 - (5-8) motion and forces



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Using This Activity as a Lesson

- Air and Flight
 - Force and Motion, 3rd Learning Focus 1.3, 4th 1.5, 5th 1.7
- Measurement Skills
 - Safety, Tools and Measurement, 3rd-5th, Learning Focus 1.1
- Investigation Variable
 - Experimental Design, 3rd-5th, Learning Focus 1.2
- Data Collection
 - Safety, Tools and Measurement, 3rd-5th, Learning Focus 1.1
- Design Challenge
 - Experimental Design, 3rd-5th, Learning Focus 1.2
- Following Instructions
 - Safety, Tools and Measurement, 3rd-5th, Learning Focus 1.1



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