

Experiment: Faster Air = Lower Air Pressure 1

Procedure Card

Materials

12 centimeter x 18 centimeter notebook paper soda straw flat surface (tabletop) ruler tape

Experiment Set Up

Holding the paper long side horizontally, measure and mark off one centimeter at each end.

Fold each end of the paper along those lines.

Using the folds as legs, stand the paper up on the flat surface and tape it in place. Make sure the paper has only a slight slack to it.

Experiment Procedure

- 1. Use the straw to blow a steady stream of air underneath the standing paper.
- 2. Observe and record.
- 3. Use the straw to blow a steady stream of air above the standing paper.
- 4. Observe and record.



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Steps

Data

 <u>State the problem.</u> QUESTION (What do I want to know?) 	Does air pressure change or stay the same when it goes from being still to flowing? OR When air changes from being still to flowing, does the air pressure change?
 <u>2. Form a hypothesis.</u> PREDICTION (What do I think is going to happen?) 	I think that when the air starts to move it will have no effect on the air pressure as nature will try to keep the pressure even. OR I think the air pressure will be greater (or lesser) where the air is flowing and less (greater) when still.
3. Design an experiment. MATERIALS & PROCEDURES (What steps will I take to do this experiment? What things will I need?)	 Materials: 12 centimeter x 18 centimeter paper • soda straw • flat surface (tabletop) • tape Procedure: 1. Fold two opposite end of the paper in 1 centimeter each. Have both folds going the same way (perpendicular) to the tabletop. 2. Set the paper with the folds as "legs" perpendicular to the tabletop and tape to tabletop. 3. Using the soda straw, blow a strong and steady stream of air underneath the paper. (See diagram) 4. Observe and record. 5. Repeat step 3, but blow over the top of the card. 6. Observe and record.



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Experiment:



Steps	Data
<u>1.</u> <u>State the</u> problem.	
QUESTION	
(What do I want to know?)	
<u>2.</u> <u>Form a</u> <u>hypothesis.</u>	
PREDICTION	
(What do I think is going to happen?)	
3. <u>Design an</u> <u>experiment.</u>	
MATERIALS & PROCEDURES	
(What steps will I take to do this experiment? What things will I need?)	



EXPERIMENT



Experiment:

Data