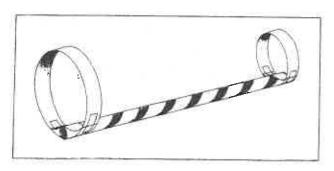
Physical Science 9

Chapter 1.1 - Scientific Method LOOPER AIRPLANE LAB

PURPOSE: to identify and manipulate variables in an experiment.



MATERIALS:	straw, paper, t	tape, scissors, ruler, ?	?
BACKGROUN Independe Depender	ID: Control _ ent Variable _ nt Variable		

PROCEDURE:

- 1. Cut two strips of paper using the following dimensions: 1.5 cm x 9 cm 2 cm x 12 cm
- 2. Make a loop out of each strip of paper, overlapping the ends and taping them inside and outside of the loop. The overlapped ends will form a pocket into which you can slip the straw.
- 3. Make observations of several test flights of the looper.

 Record them here.
- 4. Make a list of the factors that affect the looper's flight. Record them here.

other factors constant. Test the looper three times and record the data in a table. Change your chosen factor two times and record the test flight data each time. Construct the table here. Include a reproduction of this table on your lab report.

- 6. Analyze your results. Which setting resulted in the best flight?
- 7. Enter your answer to #6 on the board at the front of the room.

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QUESTIONS

- 8. What were independent and dependent variables in your experiment?
- 9. What were the controlled variables?
- 10. List the steps of the scientific method and identify where you used each one in this lab.