## 8<sup>th</sup> grade science

	Date	Period
OBJECTIVE: Test	one of two variables tha	it may or may not affect a
Vhat affects a balloc	n rocket's speed?	
(Use an if, then stat	rement or I think, becaus	se statement)
ng line		
		PENDENT variables to test.
riables:		
NT VARIABLES:		
ΓVARIABLES:		
ED VARIABLES:		
	BALLOON ROCKET  OBJECTIVE: Test balloon rocket's spe  Vhat affects a balloo  (Use an if, then stat  our team, choose ONI  Size OR Type of Size  TVARIABLES:	our team, choose ONE of the following INDER Size OR Type of String.

2. Blow up the balloon and clamp it shut with the clothespin.

3. Thread the string through the drinking straw. Tape the long side of the balloon along the length of the straw.



- 4. Have two people hold the ends of the string. Make sure the string is stretched tight.
- 5. Slide the balloon-straw system down the string until the clamped end reaches the end of the string held by a person.
- 6. Release the clothespin. Record your observations for Variable 1.
- 7. Blow up the balloon and repeat steps 5 and 6 and record your observations.
- 8. Then change the variable (string or balloon). Repeat trial 5 times. Record your observations.
- 9. Change the variable the final time. (Repeat trial 5 times). Record your observations.

OBSERVATIONS:		
VARIABLE 1:		

TRIAL	DISTANCE TRAVELED IN METERS	TIME IN SECONDS (to the nearest .10)	AVERAGE SPEED
1			
2			
3			
4			
5			
AVERAGE			

VARIABLE 2:	
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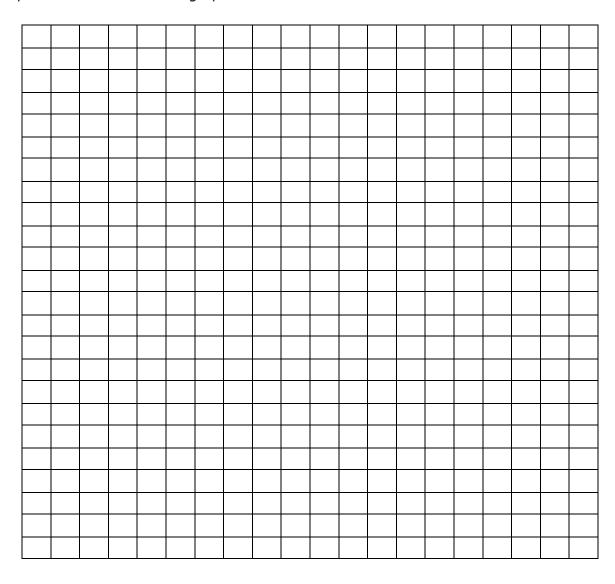
TRIAL	DISTANCE TRAVELED IN METERS	TIME IN SECONDS (to the nearest .10)	AVERAGE SPEED
1			
2			
3			
4			
5			
AVERAGE			

## VARIABLE 3: \_\_\_\_\_

TRIAL	DISTANCE TRAVELED IN METERS	TIME IN SECONDS (to the nearest .10)	AVERAGE SPEED
1			
2			
3			
4			
5			
AVERAGE			

## ANALYSIS AND CONCLUSIONS:

Plot your observations on the graph below.



Distance Traveled in Meters

Time: Seconds