Mr. Renwick's Science Class
Worksheet – The Scientific Method

Name: _	
Block:	

Learning Intentions

1. To understand how the scientific method helps us to find the truth.

Notes

1.	. Watch the Teacher's Pet video "The Scientific Method" at		
	https://www.youtube.com/watch?v=SMGRe824kak		
2.	The scientific method is an process. This means that		
3.	There are several steps to each iteration of the scientific process:		
	o Find a question or topic to investigate and do		
	o Create a		
	Create a set of to test the hypothesis.		
	o Collect using your procedures.		
	o Perform an of your data.		
	o Draw from your analysis.		
	o Figure out, based on new questions that are raised.		
4.	data uses numbers; data uses words and observations.		
5.	an experiment, the experimenters control the variable and measure the		
	variable. They try to (keep constant) all other variables.		
6.	When graphing data, the independent variable is placed on the axis and the dependent variable is		
	placed on the axis.		
	 Time is almost always a/an (independent / dependent) variable. 		

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Activity

For each of the following scenarios, identify the independent variable(s), the dependent variable(s), and the control variable(s).

- A child adds more and more teaspoons of sugar to their cereal, testing how it tastes after each addition of sugar.
- 2. To track their fitness, an athlete keeps track of all the calories they are eating and weighs themself every day.
- 3. A runner tries running 100 m using different types of running shoes.
- 4. A single person tries creating 2 different online dating profiles, and records how many messages they receive with each profile.
- 5. A soccer player compares the accuracy of their shot when using the left foot vs. using the right foot.
- 6. A teacher compares how loud the class is when students are seated next to their friends, versus when they are seated randomly.
- 7. A student compares the food their parent cooks at home to the food that they can buy at school.