

## Unit Overview Sheet: Scientific Method

Over the next three weeks, we'll be studying the scientific method, which is the process scientists use to try to make sense of the world around them. This process is interesting because it is a way of thinking and approaching problems that students can apply to the careful study of any topic.

Essential Questions						
How is the study of the world around us like a process?	Why are procedures important to help us learn?	Why is the study of science important for every person?				
Learning Target			Your Proof			
1. I can identify and create questions and hypotheses to answer through scientific investigations.  This means that I can write interesting questions that can be tested and can generate hypotheses written in proper, "If _____, then _____ because _____" format.						
Rate Your Level of Understanding						
1	2	3			4	5
Grades Earned						
Learning Target			Your Proof			
2. I can develop a set of appropriate procedures to test any question.  This means I can outline the key steps of any good experiment in writing and that another person could successfully complete my experiment by following my directions.						
Rate Your Level of Understanding						
1	2	3			4	5
Grades Earned						
Learning Target			Your Proof			
3. I can identify and explain the impact that variables have on scientific experiments.  This means that I can explain the difference between dependent and independent variables, identify the dependent and independent variables in any experiment, and make an accurate prediction about how changing variables might change the outcome of an experiment.						
Rate Your Level of Understanding						
1	2	3			4	5
Grades Earned						

## REPRODUCIBLE

<b>Learning Target</b>					<b>Your Proof</b>
4. I can gather and draw conclusions from evidence. This means that I can create charts, graphs, or images that accurately represent what I observe in an experiment, effectively communicate numerical observations using the metric system, and spot interesting patterns in sets of data that I have collected.					
<b>Rate Your Level of Understanding</b>					
1	2	3	4	5	
<b>Grades Earned</b>					
<b>Vocabulary to Master</b>					
<input type="checkbox"/> Inference <input type="checkbox"/> Independent variable <input type="checkbox"/> Hypothesis <input type="checkbox"/> Dependent variable <input type="checkbox"/> Qualitative			<input type="checkbox"/> Observation <input type="checkbox"/> Quantitative <input type="checkbox"/> Constants <input type="checkbox"/> Control <input type="checkbox"/> _____		