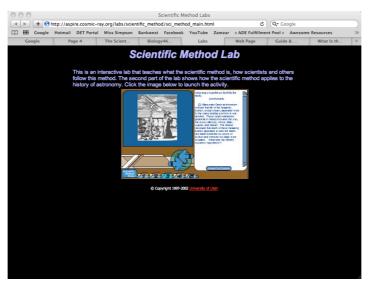
The Scientific Method Webquest

This webquest is designed to give you a more practical understanding of the Scientific Method and how it applies to everyday situations. Please answer the questions below in your science files.

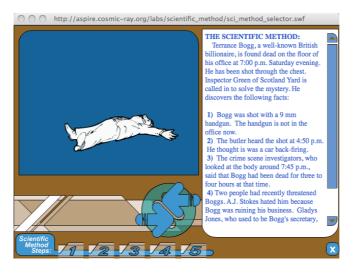
Go to the website

http://aspire.cosmic-ray.org/labs/scientific_method/sci_method_main.html or if this fails to load go to www.goohle.com and type in the keywords "scientific method lab" and select the first option from the list that is generated for you.

You know you have come to the correct website when it looks like this:



From here click on the image to launch the interactive site and then click "What is the scientific method?" You should come to a screen that looks like this:



Read through the information carefully and select the arrows to navigate through the website.

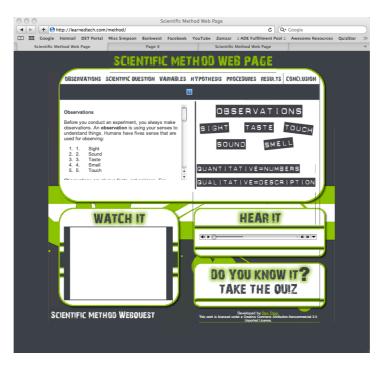
Q1. Why can a detective and a scientist be considered to have a lot in common? _____

Q2. Complete the following table:

	Solving the Mystery	The Scientific Method	
	1. Inspector Green is assigned to solve Bogg's murder.	1.	
	2.	2. Research and find the facts	
	3. Green guesses that A.J killed Bogg.	3.	
	4.	4. Test the hypothesis (experiment)	
	5. Green concludes that A.J is guilty. His initial guess was correct.	5.	
Cli sco	ore out of 2?	plete the multiple-choice test. What was your	
CII	ck on the arrow to come to STEP 2: Res e	arcn/Find the Facts.	
	. <i>Complete this sentence:</i> act in science is something that can be _	by(seeing	
SOI	nething with your own eyes) or	(using a tool, a ruler, scale,	
stc	pwatch to see differences that you canno	ot find very easily).	
Q 4	. What is an opinion?		
Q5. What is the main difference between an opinion and a fact?			
	. What is an inference?		
Cli	ck on the arrow to practice your skills at	separating fact from inference.	
	. <i>Complete the sentence:</i> good hypothesis must fit all of the	available. A careful scientist	
ne	ver a fact just because	e it doesn't fit his/her first ideas.	
Cli	ck on the blue bar to try some situations		
ą 8	. In the spaces below, write down your hy	ypothesis for the following situations.	

Q9. What was his hypothesis?	A) You are watching TV and the screen goes black. You try turning on the lights, but nothing happens.		
but you could not let him off of work. On opening day of deer hunt, Greg's wife calls are says that Greg is too sick to come to work. Click on the arrow to come to STEP 3: Form a Hypothesis. Complete the activity about Louis Pasteur. Q9. What was his hypothesis? Click on the arrow to come to STEP 4: Test Your Hypothesis Q10. What is the most common way to test a hypothesis? Q11. What are the four properties of a good experiment? 1) 2) 3) 4)	B) It is just before dinner, and you see ta	co meat cooking on the stove. Your hypothesis:	
Complete the activity about Louis Pasteur. Q9. What was his hypothesis? Click on the arrow to come to STEP 4: Test Your Hypothesis Q10. What is the most common way to test a hypothesis? Q11. What are the four properties of a good experiment? 1) 2) 3) 4)	but you could not let him off of work. On	opening day of deer hunt, Greg's wife calls and	
Click on the arrow to come to STEP 4: Test Your Hypothesis Q10. What is the most common way to test a hypothesis? Q11. What are the four properties of a good experiment? 1) 2) 3)	Click on the arrow to come to STEP 3: Fo	orm a Hypothesis.	
Q10. What is the most common way to test a hypothesis? Q11. What are the four properties of a good experiment? 1) 2) 3) 4)	Complete the activity about Louis Pasteu	r.	
2)	Q9. What was his hypothesis?		
Q11. What are the four properties of a good experiment? 1)	Click on the arrow to come to STEP 4: Te	est Your Hypothesis	
1)	Q10. What is the most common way to te	st a hypothesis?	
2)	Q11. What are the four properties of a go	od experiment?	
3) 4)	1)		
4)	2)		
4)	3)		
Click on the arrow to come to STEP 5: Accept or Reject Your Hypothesis			
	Click on the arrow to come to STEP 5: Ac	cept or Reject Your Hypothesis	
Q12. What is a scientific theory?	Q12. What is a scientific theory?		

Next task is for you to go to the website http://learnedtech.com/method/ or if this fails to load, go to www.google.com and type in "the scientific method web page" (select the first option from the list that is generated for you). It will look like this:



Go through each stage of the scientific method highlighted on the web page. Watch the videos, listen to the audio and take notes on the important information. Finally, complete the quiz at the end of each section and write your results below:

Observation Quiz Score: /6

Scientific Question Quiz Score: /10

Variables Quiz Score: /6

Hypothesis Quiz Score: /11

Procedures Quiz Score: /10

Results Quiz Score: /10

Conclusion Quiz Score: /6

END OF WEBQUEST