NOVA Sun Lab					
Geology				Mr. Traeger	
Name:		Period:	Date:		
	e purpose of this assi- pout its activity.	gnment is to see how sola	r scientists stu	udy the Sun and make	
	IOVA Sun Lab Websi 'encil or Pen	te: http://www.pbs.org/wgb	oh/nova/labs/la	ab/sun/	
http:// part c	<u>/www.pbs.org/wgbh/n</u> f the class website.			vser to n the Internet Investigations	
	Click on %Research Ch	allenge.+			
3. G	io through the following	ng parts of the investigatio	n.		
Part 1: Solar 1. Follow the	Cycle e instructions on the S	Sun Lab website.			
2. Fill in the		or sunspot numbers as se		Scientific Estimate	
December, 20	<b>Date</b> 010	Your Estimate		Scientific Estimate	
March, 2011					
July, 2011					
October, 201	1				
January, 2012	2				
3. How does might be?		are to the scientific estima	te? If itos differ	rent, why do you think this	
		o the big picture of the sol un marched closer to the r		rou can see, sunspot activity in imum.	

5. Based on the overall trend, when do you think the next solar maximum after 2011 will occur?

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## Part 2: Storm Prediction

1. Go through each of the named scenarios and forecast which region is more likely to produce solar flares.

Scenario	Which region is more likely to produce solar flares? Did you get it right?
Huge Spots	
Complicated Spots	
Rapid Growth	
Mixed-Up Magnetic Fields	
Threatening Filaments	

## Part 3: Open Investigation (This is worth half the points of this assignment, so do a good job here!)

- 1. Think of a question that interests you about the Sun. What is that question?
- 2. Describe your investigation, how you went about conducting your investigation, and what you learned about the Sun from your investigation. This should be in essay format and should use full sentences!