Solar V	Vind and Magnetosphere Lab Worksheet	Name: Period:	
1.	Give, in as much detail as you can, an explana particles like those from the solar wind when the ionosphere.		
In this experiment, cereal will be used to represent the charged particles coming from the solar wind, oil to represent the Earth's magnetosphere, and magnets to represent the alignment of the Earth's magnetic field.			
2.	Look at the cereal. Describe what is in it.		
3.	Why do you suppose there are different comp	ponents to the cereal?	
4.	As a group, decide how you want to place the magnets. Do you want to place them as a dipolar field with unlike poles facing each other, with like poles facing each other, or just use one? a. How do you want to orient them relative to the beaker?		
	b. Draw a sketch of your magnet placement. configuration.	Explain why the group chose this	
	c. Does this configuration represent a specifi whole?	c part of the Earth's magnetosphere or the	
5.	What do you hypothesize will happen when the substance? Write down your hypotheses.	e cereal is poured into the oil-like	

6.	Pour the cup of cereal into the beaker of oil and describe and sketch what you see. Pay specific attention to anything that happens in the oil-like substance.
7.	Explain how what happened to each of the cereal components represents what happens when the color wind encounters the Forth's magnetosphere and innerphere/atmosphere
	when the solar wind encounters the Earth's magnetosphere and ionosphere/atmosphere.
8.	Prepare a presentation, which the group will share with the class, that explains your results and its representation of how the solar wind and magnetosphere interact. Outline the presentation below.