"The A	urora" Website Worksheet	Name
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*The answers to the following questions can be found at this website: http://sprg.ssl.berkeley.edu/rocket_cast/index.htm Use this site—it is to your advantage!		
(2) 1.	Who coined the term "aurora borealis",	and what is it describing?
	As people began to study the aurora, the Name two theories.	neories about its origin developed.
` '	There is a satellite program aimed at le Name it, and tell what the acronym star	•
(1) 4.	When was the aforementioned satellite	launched into orbit?
(4) 5.	Name four things that the Earth's atmos	sphere is filled with.
` '	What is the collective term for the gas-liparticles emitted from the sun?	ike mixture of charged subatomic
(2) 7a.	What does "IMF" stand for?	
b.	Changes in the direction of the IMF re can cause auroral activity.	lative to the
(2) 8.	Explain how the Earth's magnetic field	works. Be specific.
` '	Define <i>mean free path</i> . How long is this Earth?	s path in the neighborhood of the
(2) 10.	What two things happen when the IMF magnetosphere?	collides with Earth's

(2) 11.	Most particles are deflected around the Earth's magnetosphere at a boundary called the What percentage of those particles is actually able to enter the magnetosphere?	
(1) 12.	What is the easiest way to determine the direction in which currents and magnetic fields point?	
(2) 13.	What is the ionosphere and how is it created?	
(2) 14.	Explain what happens in the auroral acceleration region.	
(2) 15.	The ionosphere acts as a This allows for what to happen?	
(2) 16.	The aurorae are always present where? What shape do they take when seen from space?	
(2) 17.	Name two types of aurora.	
(6) 18.	In your own words, explain how energy and particulate matter from the sun can create an aurora on Earth. Be as specific as you can.	