Name:								

Where is the Best Place to Locate a New Solar Power Plant? Investigation Sheet

Solar energy comes from the sun. In this activity, you will use Web GIS to determine the best place to locate a new solar power plant. You will

- 1. Learn some basic features of Web GIS to visualize data and obtain information.
- 2. Analyze annual average sunshine data to determine good locations for solar plants.

Read **all** instructions on your handout and answer **each** question.

1.	What map color represents locations that receive the least amount of annual average sunshine?
2.	What parts of the world receive the least amount of annual average sunshine?
3.	What parts of the world receive the most amount of annual average sunshine?
4.	What parts of the continental United States (lower 48 states) receive the least amount of annual average sunshine?
5.	What parts of the continental United States (lower 48 states) receive the most amount of annual average sunshine?
6.	What is the latitude and longitude of the solar plant location in Pennsylvania?
7.	How much average sunshine does this area of Pennsylvania receive?%

Solar Power Plants Data Chart

Name of Solar Power Plant	Location	Latitude	Longitude	Status	Annual Average Sunshine
1. Pennsylvania Solar Park	USA	40.8616 N	-75.8305 W	Proposed	51%
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
8. Which solar power plant is lo					
9. Which solar power plant is lo	cated at the lov	vest latitude? _			
10. How many solar plants rece	eive more than	70% of annual	average suns	shine?	
11. How many solar plants rece	eive less than 7	0% of annual a	average sunsl	hine?	
12. Are all solar plants located i	n places where	they receive a I	ot of sunshin	e?	
13. Why do you think the Penn :	sylvania Solar l	Park is being b	uilt in Carbon (County, PA?	
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14. Where do you think is the b	est place in the	world to locate	a new solar p	ower plant?	

15. Why did you select that location? Support your decision with evidence from the Web GIS map.