Name _____

Period _____

Salinity in the oceans

Directions – use the data tables to help answer the following questions about Earth's oceans and salinity differences.

	Salinity in Parts Per Thousand								
Depth/m	Site 1	Site 2	Site 3	Site 4	Site 5	Average			
2	21.2	22.0	19.8	20.3	21.4				
4	22.2	22.6	22.3	22.4	21.9				
6	23.2	23.8	22.5	23.1	22.8	23.08			
8	27.6	27.3	27.7	28.1	28.0	27.74			
10	29.3	28.7	29.1	29.2	29.4				
12	30.0	29.3	31.1	29.8	30.2	30.08			

- 1. Complete the data table by finding the average salinity in the empty spaces.
- 2. What are 2 patterns you observe by looking at this data table that shows the change in salinity with ocean depth (how deep)?
- 3. Use the data table to create a bar graph to compare the average salinity and the ocean depth.

Title of Graph ______

Average Salinity/Parts Per Thousand

4. According to the graph, what happens to the salinity of the water as the depth (how deep) increases?

5. What do you think may be causing this change?

Table 2 – Surface Water Salinity in Atlantic and Pacific

Oceans

the thread a	A 4 1 1 * -	D		
Latitude	Atlantic	Pacific		
	PPT	PPT		
60° N	33.0	31.0		
50° N	33.7	32.5		
40° N	34.8	33.2		
30° N	36.7	34.2		
20° N	36.8	34.2		
10° N	36.0	34.4		
0°	35.0	34.3		
10° S	35.9	35.2		
20° S	36.7	35.6		
30° S	36.2	35.7		
40° S	35.3	35.0		
50° S	34.3	34.4		
60° S	33.9	34.0		

(Graph Title									

Latitude

Atlantic

Pacific

- 1. Use the data from table 2 to create a line graph
- 2. Which ocean has a higher surface salinity?

РРТ

3. What pattern do you see when comparing surface salinity and latitude?