

Name \_\_\_\_\_

## NOAA Learning Objects

Please listen to the interactive presentations and answer the questions below, the questions are in the order of the presentation

### Ocean Currents

1. What are the small currents that flow off the Gulf Stream called? \_\_\_\_\_
2. How long do these shorter currents last compared to the Gulf Stream?  
\_\_\_\_\_
3. What are the three primary factors that create currents?  
\_\_\_\_\_
4. What is the dominate surface pattern of ocean circulation called? \_\_\_\_\_
5. \_\_\_\_\_ is the most important cause of surface currents.
6. What causes the surface currents to flow at an angle from the wind direction?  
\_\_\_\_\_
7. What directions to gyres travel in the northern hemisphere? \_\_\_\_\_, southern hemisphere? \_\_\_\_\_
8. What current in the north Atlantic gyre is strongest and deepest? \_\_\_\_\_
9. How long does it take for this gyre to fully circulate? \_\_\_\_\_
10. What current is responsible for bringing icebergs south causing the Titanic to sink?  
\_\_\_\_\_
11. What currents bring cold water to the surface along with nutrients for fish populations?  
\_\_\_\_\_
12. How long does the global conveyor belt take to circulate all of the oceans? \_\_\_\_\_
13. Where does the conveyor belt begin? \_\_\_\_\_

### Global Impact

1. What are two ways that humans are dependent on ocean currents?  
\_\_\_\_\_
2. What is found at upwelling zones that is the base of the food chain? \_\_\_\_\_  
\_\_\_\_\_
3. What types of currents circulate heat from the tropics to the poles?  
\_\_\_\_\_
4. What could shut down the global conveyor belt? \_\_\_\_\_
5. What would happen if the global conveyor belt does shut down?  
\_\_\_\_\_
6. How long could catastrophe take? \_\_\_\_\_

### Hurricanes

1. What do hurricanes circulate around? \_\_\_\_\_
2. What are hurricanes called in other areas of the world? \_\_\_\_\_
3. What are the two ingredients that cause a hurricane to form?  
\_\_\_\_\_
4. What are the minimum wind requirements for a hurricane? \_\_\_\_\_

5. What winds blow from the west that bring hurricanes to the Caribbean, North and Central America? \_\_\_\_\_
6. What are two items that weaken hurricanes? \_\_\_\_\_
7. What is the most destructive force of a hurricane? \_\_\_\_\_
8. What is the bulge of water called that destroys coastal areas? \_\_\_\_\_

*Global Impact*

1. What the hurricane that killed over 8,000 people in 1900 called? \_\_\_\_\_
2. With warming ocean waters, what pattern has occurred?  
\_\_\_\_\_
3. How many people live on or near the coast in the U.S.? \_\_\_\_\_