

Regents Earth Science

Intro to Hurricanes

Name _____

Teacher: _____ Period: _____

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Answer the following questions as you browse the links below. Work neatly - I'll check them over, and you'll want them to study for a quiz!

Go to

<http://www.accuweather.com/promo-ad.asp?partner=accuweather&traveler=0&dir=aw&page=hurr2007>. This is a recent Accuweather page regarding the 2007 hurricane season.

1. What part of the year constitutes the Atlantic Hurricane Season? _____
2. How many *hurricanes* (not storms) are predicted for 2007? _____
3. Where in the "Cone of Concern" does NY fit, and what does that mean?

Go to

<http://www.cnn.com//SPECIALS/2004/hurricanes/interactive/forms/frame.set.exclude.html>

1. Look at the diagram at "**Stage 1**" What direction, generally, do hurricanes in the eastern and mid Atlantic move?
2. As the hurricanes approach the United States, how, generally, do their paths change?
3. What characteristic of the ocean over which the hurricanes form seems essential for storms to form?

Click "Stage 2"

1. What do the red arrows indicate?
2. In what direction (*clockwise* or *counterclockwise* - circle one) do the blue arrows indicate the spinning motion in the atmosphere around the hurricane?
3. What temperature must the sea water be in order for a hurricane to form? How does that temperature compare with ocean water temperatures around NY? (See Oceanweather.com to find a map of current water temperatures)

Click "Stage 3"

1. Describe the motion of warm moist air at the "eye" of the hurricane. _____
2. Describe the direction of the rotation of the atmosphere (blue arrows) near the center of the storm. Does the air seem to be moving (*into* or *out of* - circle one) the center of rotation?

Click on "Safety Tips" at the bottom of the page

1. What do tips 2 and 3 suggest you do?

2. List the items you should have in your "supply kit".

3. Tips 5 and 6 deal with preparing your house. Describe what *your family* should do to prepare *your own* home.

4. Why are "low lying areas" considered "danger areas"?

Go to <http://weather.unisys.com/hurricane/index.html>

1. Find the saffir-Simpson Scale, and list the wind speeds of each of the 5 hurricane categories.

2. What do you notice about the wind speed as air pressure drops?

3. Click "[Storm Names](#)" under the "Atlantic" column. What are the names of the first 8 named storms of this season?

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4. Return to <http://weather.unisys.com/hurricane/index.html> and click 2007 under the "Atlantic" column. Are there any active storms right now? If so, what storms and what category are currently active?
