Discovery Education: Thunderstorms and Hurricanes

Part 1: Weather Patterns

Read through the different slides. Take the quiz at the end. Record the answers in your notebook. (No, you do not need to write the question FOR THIS SECTION ONLY)

Thunderstorms: Sketch and describe how a thunderstorm develops.

Part 2: Hurricane Exploration

*Directions: Read the introduction and click the continue button. Read the text and follow the instructions. Watch the animations and READ the outcome explanations as they appear. Create a data table in your notebook and record the results. Write out and answer the four questions below.*

1. What are hurricanes?
2. What names do hurricanes have in other places in the world?
3. Explain how a hurricane forms.
4. What should you do if a hurricane is projected to hit your town?

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| --- | --- |
| Weather Conditions that Allow Hurricanes to Form | |
| Wind Speed |  |
| Humidity |  |
| Water Temperature |  |
| Pressure |  |

Part 3: Create a Hurricane

*Directions: Read the introduction and click the continue button. Study the map and READ the text.* ***Note that the Coriolis Effect is due to Earth’s rotation.*** *Select an ocean temperature, latitude, and movement. Click on the PLAY button.**Watch the animations and READ the outcome explanations as they appear. Create the data table in your notebook and summarize your results in the appropriate section. Write out and answer the three questions below.*

1. Which latitude(s) can produce hurricanes? Why?
2. Where does a hurricanes energy come from?
3. If you lived in China, what would you call a tropical cyclone?

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| Latitude and Movement | | Ocean Temperatures | | |
| 24° C | 27° C | 30° C |
| 3° N | NW/N |  |  |  |
| W/NW |  |  |  |
| 20° N | NW/N |  |  |  |
| W/NW |  |  |  |
| 32° N | NW/N |  |  |  |
| W/NW |  |  |  |