**Unit 7 Notes: Severe Weather—Thunderstorms, Tornadoes, and Hurricanes**

1. The three basic ingredients of storms are:
   1. \_\_\_\_\_\_\_\_\_\_ energy—the fuel of the storms
   2. Differences in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_
2. The ultimate source of the heat energy is the \_\_\_\_\_\_\_\_\_\_.
3. As air warms, it expands, grows lighter, and \_\_\_\_\_\_\_\_\_\_.
4. Heat increases \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (3:00)
5. Heated air has \_\_\_\_\_\_\_\_\_\_ air pressure.
6. Cool air contracts, grows heavy, and \_\_\_\_\_\_\_\_\_\_ toward the \_\_\_\_\_\_\_\_\_\_. (5:15)
7. Thunderstorms:
   1. Sort:

|  |  |  |
| --- | --- | --- |
| Stage | Information | Image |
| Cumulus |  | C13-03A |
| Mature |  | C13-03B |
| Dissipation |  | C13-03C |

(6:50)

1. Hurricanes:
   1. Sort:

|  |  |  |
| --- | --- | --- |
| Stage | Information | Image |
| Tropical Depression |  |  |
| Tropical Storm |  |  |
| Hurricane |  | HurricaneanatomywcaptionSciAmer10-04p71.jpg (700×431) |
| (Break up) |  | https://qph.ec.quoracdn.net/main-qimg-1c4bb2c1251f88b6e8b4a1f6387b2195 |

* 1. Winds of \_\_\_\_\_\_\_\_\_\_ are common and destroy \_\_\_\_\_\_\_\_\_\_ mostly.
  2. 9 out of 10 deaths are from \_\_\_\_\_\_\_\_\_\_.
  3. Torrential rain causes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ but the deadliest water is the ocean swell called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and may be \_\_\_\_\_\_\_\_\_\_ high.
  4. In theory, hurricanes could last \_\_\_\_\_\_\_\_\_\_, but most only last a few \_\_\_\_\_\_\_\_\_.
  5. Hurricanes \_\_\_\_\_\_ animals like sea birds that need beaches clear from growing \_\_\_\_\_\_. (at end of video)

1. Tornadoes (10:15):
   1. Tend to be \_\_\_\_\_\_\_\_\_\_ violent than hurricanes.
   2. Develop in very unsettled air when sharply divided \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ air masses meet
   3. Tornado alley in the south central US is the most famous site of formation: \_\_\_\_\_\_\_\_\_\_\_ air rushing south meets \_\_\_\_\_\_\_\_\_\_\_\_ air from the Gulf of Mexico.
   4. Sort:

|  |  |  |
| --- | --- | --- |
| Formation Steps | Information | Image |
| 1st |  |  |
| 2nd |  |  |
| 3rd |  |  |
| 4th |  |  |

* 1. Most only last a few \_\_\_\_\_\_\_\_\_\_.
  2. Natural purpose
     1. Release atmospheric tension between \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
     2. Distribute \_\_\_\_\_\_\_\_\_\_ between the equator and the poles.

1. Severe Weather Impacts: Environmental vs. Human

|  |  |  |
| --- | --- | --- |
| Type of Severe Weather | Environmental Impacts | Human Impacts |
| Thunderstorms |  |  |
| Hurricanes |  |  |
| Torndaoes |  |  |