

Answer the following questions as you watch the video. Questions are in order.

THE WEATHER MACHINE:

1. WEATHER is the condition of _____.
2. All the world's weather occurs in this part of the atmosphere: _____
3. Antarctica had the lowest recorded temperature in July of 1983 at this temperature: _____
4. About how big is the Sahara Desert? _____
5. Az-Zawiyah, Libya holds a record hot temperature of _____.
6. The "jet stream" is a narrow band of _____.
7. WIND is the movement of air from a _____ pressure to a _____ pressure area.
8. A "front" is a clash between cold & warm air masses, deriving its name from this war: _____
9. When the air holds as much moisture as it can, it becomes _____.
10. The temperature at saturation is called the _____.

HURRICANES!:

1. On average _____ hurricanes strike the U.S. each year.
2. Hurricanes are called so from the Spanish word meaning _____.
3. In the Pacific they are called _____ from Chinese "Great Wind" and in the Indian Ocean they are called _____ from Greek meaning "go around."
4. Ocean surfaces must be this temperature for a hurricane to form: _____
5. Warm air _____ (rises or sinks).
6. When winds reach 74 mph, they are strong enough for the storm to be called a hurricane. One product of strong winds is larger than normal waves. This effect is called a _____ which causes many of the deaths in a hurricane.
7. How did Belize protect its capital from future hurricanes? _____
8. More than 40 million Americans live along the coast, but _____ percent have NOT experienced one.
9. "Harmless" clouds off of the coast of _____ may form a hurricane.
10. If you could harness one day's worth of a hurricane's energy, it could power the United States for _____ (amount of time).
11. Eventually it loses power and fades away as it _____ or hits _____ water.

TORNADOES!:

1. A tornado begins when **warm humid** air from the _____ hits **cold dry** air from the _____.
2. Thunderstorms draw air up from the ground causing a column of air with the cold air falling. If a funnel touches ground it is called _____
3. More than 1/3 of all tornadoes in North America strike in TX, OK, and KS, a belt known as _____
4. Although they may last for hours, most tornadoes are over in _____ (time).
5. Wind speeds in a tornado may exceed _____ miles per hour.
6. Each year, the US can expect from _____ to _____ tornadoes, with only 3% of these powerful enough to kill people.
7. TRUE or FALSE: There really are "tornado chasers" like portrayed in the movie *TWISTER*. _____

THINGS THAT FALL FROM THE SKY:

1. In June 1991, Mt. Pinotubo in the Philippines shot ash and sulfur dioxide into the sky which combined changed the temperature of many parts of the world by _____ a degree.
2. Red sand from the Sahara Desert may be blown as far away as _____ where it could coat cars in a fine orange dust.
3. _____ in Munich in 1984 caused the worst disaster in Germany since WWII.
4. The worst area for hail is in the United States over WY, NB, & CO, called _____.
5. Updrafts freeze water vapor into _____ which if cut in half show it is really layer upon layer of _____.
6. One of the largest hail stones in existence (from Coffeyville, KS) is 10 times larger than a _____ and may weigh _____ pounds!