

Name: \_\_\_\_\_ Answer Key \_\_\_\_\_

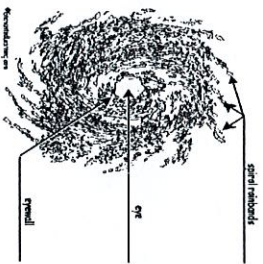

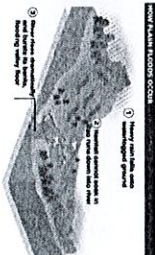
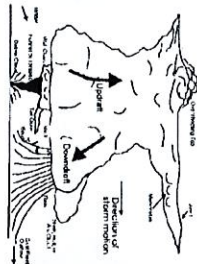
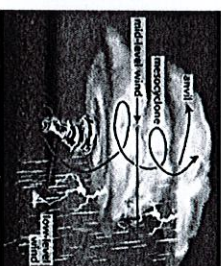
Date: \_\_\_\_\_

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## Severe Weather Notes

Complete the following chart using the packets in class and your textbooks:

	<b>Hurricane</b>	<b>Winter Storm</b>	<b>Flood</b>	<b>Thunderstorm</b>	<b>Tornado</b>
<b>What is it?</b>	A type of tropical cyclone - organized rotating weather system that develops in the tropics.	Severe storm in the winter that can last for several days and contain hazardous conditions	A rapid rise of water along a stream or low-lying urban area	Storm that produces hail at least $\frac{3}{8}$ in. in diameter, winds above 58 mph, or tornados	Violently rotating column of air extending from a thunderstorm to the ground.
<b>How does it form?</b>	Heat and energy have contact with warm ocean waters, then moisture evaporates from the sea surface powers the storm. Finally, a wind pattern near the ocean surface spirals air inward. Bands of thunderstorms form allowing the air to rise higher into the atmosphere	Precipitation freezes and falls as snow, sleet, or freezing rain and covers the ground - three key components are cold air, moisture, and lift	Combination of heavy rain, dam break, levee failure, rapid snowmelt, and ice jams melting due to warmer temperatures	Combination of three key components - moisture, unstable air, and lift. Cumulus clouds indicate rising air with little rain, once the storm is mature, heavy rain, lightning, winds, and tornados appear.	Before a thunderstorm, a change in wind direction and increase in wind speed creates a horizontal spinning effect. Rising air in the thunderstorm tilts the rotation to vertical. Most tornados form in this area
<b>Where does it form?</b>	Off the coast of Africa in the Atlantic ocean	Northern and Southern regions in which the temperature decreases during the winter	Anywhere! Most common in mountains and steep hills with clay and rock soil	Anywhere!	Anywhere!
<b>What are other forms of weather that are associated with the storm?</b>	Storm surges, storm tide, high winds, tornados, flooding	Floods, blizzards, blowing snow, snow squalls, snow showers, and snow flurries	Ice jams, hurricanes, rainfall, thunderstorms, snowmelt	Lightning, hail, strong winds, tornados, heavy rain, flooding	Thunderstorms,
<b>What type of damage does the storm cause?</b>	Flooding damage to homes, high winds cause roofs and trees to be blown off, building collapse	Flooding damage, avalanches, ice jams,	Death, cars swept off the road, water damage inside homes	Flooding damage, fires from the lightning,	Damage to buildings from the high winds, building collapse, trees uprooted

	<b>Hurricane</b>	<b>Winter Storm</b>	<b>Flood</b>	<b>Thunderstorm</b>	<b>Tornado</b>
<b>What are some health effects of humans in the storm?</b>	for those caught in the winds, people may see respiratory problems from the debris in the air	Frostbite, hypothermia, wind chill,	N/A	N/A	N/A
<b>What are things you can do to be safe from the storm?</b>	Evacuate, have a disaster kit ready, board up doors and windows, go to a lower level in the home away from windows, lie under sturdy objects.	Listen to the radio or tv for watches and warnings, stay inside, disaster kit ready, dress for the season, stay dry,	Get to a higher level in the home, disaster kits, evacuate if necessary, avoid driving	Stay inside, if outside - low lying area,	Move to a basement or interior room in the home, stay away from windows, get out of cars, cover head from debris
<b>Draw and label a picture of the storm.</b>					
<b>What would you want to include in a disaster kit for this type of storm?</b>	Water, food, clothing for a day, medicine, blankets, first-aid kit, radio, flashlight, keys and money, emergency tools	Water, food, clothing, blanket, first-aid kit, medicine, emergency tools, radio, flashlight, money, keys	water, food, clothing, blanket, first-aid kit, medicines, radio, flashlight, money, keys, emergency tools	water, food, clothing, blanket, first-aid kit, medicines, radio, flashlight, money, keys, emergency tools	water, food, clothing, blanket, first-aid kit, medicines, radio, flashlight, money, keys, emergency tools
<b>Is there a scale to measure the storm? If so, what is it called?</b>	Saffir-Simpson Hurricane Scale - categorizes the hurricane by the wind speed and damage types	No scale for this storm	No scale for this storm	No scale for this storm	Fujita Tornado Scale - categorizes the tornado based on damage caused from the storm
<b>What type of warning system is in place for this type of storm?</b>	NOAA Weather Radio, watches and warnings from the news	NOAA Weather Radio, watches and warnings from the news	NOAA Weather Radio, watches and warnings from the news	NOAA Weather Radio, watches and warnings from the news	NOAA Weather Radio, watches and warnings from the news