Climate Change Trends & Effects Worksheet

Access to the internet is required to complete this activity. Please use the following website to access resources needed to answer the questions below: <u>https://tiny.utk.edu/climatechange</u>

Seasonal Warming Trends in Tennessee and the United States.

1.	In which season is Tennessee experiencing the fastest warming?	Spring Summer Fall Winter
2.	Approximately how many degrees has each of the four seasons warmed during the period from 1970 to 2017 (round to the nearest 0.25 degree F)?	Spring 2.25 Summer 1.5 Fall 1.25 Winter 3.5
3.	Which season is warming the fastest by the most states?	Spring Summer Fall Winter
4.	Name a state that is experiencing fastest warming for each of the seasons.	SpringCalifornia, etc SummerWashington, Oregon FallTexas, etc WinterFlorida (entire east)

Mosquito danger days.

 What is the range of average daily temperature that is considered "disease danger days?" 	61F to93F
2. Which Tennessee city has seen the biggest increase in "mosquito danger days" per year?	ChattanoogaNashvilleJacksonMemphisKnoxvilleTri-cities
 Name a city outside of Tennessee that has seen more of an increase in "mosquito danger days" than any city in Tennessee. 	Bluefield, VA; Reno, NV; San Francisco, CA; Burlington, VT; Las Vegas, NV; etc

Frequency of heavy downpour rains.

1.	Approximately how many heavy downpours occurred in Tennessee in the years listed?	195515 196010 197527 198515 201027
2.	Is the trend in frequency of heavy downpours increasing or decreasing in Tennessee?	Increasing Decreasing

Agricultural growing season.

1.	Approximately how many days longer is	5 days
	the current growing season than it was in	12 days
	1975 in the United States?	25 days
2.	Rank these Tennessee cities from longest	Knoxville4
	to shortest number of days later the first	Memphis1
	frost is coming.	Nashville2
		Tri-Cities3

Occurrence of tornados.

1. Is there a consensus on whether climate change is affecting tornados?	Yes	Νο
 Is the trend in number of tornados per year in Tennessee going up or down? Use the data table to create a graph and answer this question. 	Up	Down

Tennessee Tornados

<u>Decade</u>		<u>Number of</u>	Data from <u>www.tornadohistoryproject.com</u>
		<u>Tornados</u>	
	1950 - 1959	95	
	1960 - 1969	74	
	1970 - 1979	180	
	1980 - 1989	114	
	1990 - 1999	220	
	2000 - 2009	289	
	2010 - 2016	277	

