	$\land$	Measuring Weather and Climate: Precipitation Worksheet					
1. Put a check mark ( $$ ) by only those components of a weather station listed be that measure precipitation. (5 points)							
	Aner	nometer					
	Standard Rain Gauge Soil Thermometer						
	Fisher & Porter Rain Gauge						
	Air T	Thermometer					
2.	In teams of two students and using I-pads, computers, and/or the classroom computer/digital projector or Smart TV, follow the steps to answer: How much precipitation fell at the local active weather station on (the last date we know there was precipitation in our area)?						
		_ inches (1 point)					
	Step	<u>s</u>					
	1	Open your Internet browser (use Safari, Firefox, or Chrome because Internet Explorer doesn't work well with this database)					
	2	Type scacis.rcc-acis.org into the address box of your browser and hit return					
	3	Select Single-Station Products					
	4	Select Daily Data Listing					
	5	For the <b>Start date</b> and <b>End date</b> , type in the last date we know there was precipitation in our area (year, month, and daybut a 0 before any month or day under 10)					
	6	Check Precipitation under Value					
	7	Select Station/Area selection					
	8	Type your <b>town</b> , <b>state</b> in the search box and hit the search icon					
	9	Click on the blue pin that indicates the <b>local active weather station</b> the teacher					
	10	wants to use for these worksheet exercises					
	10	Click <b>Go</b> and answer the question above					
		ational Oceanic and Atmospheric Administration Regional Climate Centers, SC eved from <a href="http://scacis.rcc-acis.org/">http://scacis.rcc-acis.org/</a>					
3.	Accessing the Accumulation Graph, what was the wettest year on record at thelocal active weather station?						
		(1 point)					

Name\_\_\_\_\_ Date \_\_\_\_\_ Period/Mod \_\_\_\_\_

	Name	Date	Period/Mod
	How much more precipitation wyear?	vas there in that wettest	t year than or last complete
	inches in wettest year of precipitation (3 points)	inches in our last con	mplete year = inches more
<u>Steps</u>	day of January (example: 2 for the same year, December For Variable select Precipe For Additional lines check If you have already selected.	to the address box of you ducts  aph the numbers for the year 2018-01-01) and for the loer, and the last day of Dopitation k Normal, Highest year ed the rea, just click Go and an	of interest, January, and the first  End date, type in the numbers ecember (example: 2018-12-31)  and Lowest year local active weather eswer the questions. If not, redo
4.	<b>Hypothesis</b> (3 points)		
varied, station	r teams of two, write a hypothesis of two, write a hypothesis of or precipitation has not changed at over the last 70 years. Remember g clear. Check with your teacher if	t theto use the if/then/becaus	local active weather se format and make your
and sno	about these questions as you write owfall in your area over the last few owfall in other parts of your region ed in nature that makes you think y	w years. What have you a or state over the last few	heard or noticed about the rain v years? What have you

5. <u>Hypot</u>	hesis Testin	<u>ıg</u>								
<b>Steps</b>										
<u> 3teps</u> 1	Open your Internet browser (Safari, Firefox, or Chrome)									
2	± •									
3	201 001100 1111									
4										
5										
6	ect Sum									
7	For <b>Variable</b> , select <b>Precipitation</b> and for <b>Summary</b> , select <b>Sum</b> For <b>Year range</b> type in the latest ten-year period (example: 2009 – 2018)									
8	Set the Month range at 1-12									
9	If you have	already sel	ected the _			local active weather				
yearly precipitation for the 10-year period to the data table below. If not, redo 7-9 in Part 2 of this worksheet before clicking <b>Go</b> Repeat steps 7-9 for all of the 10-year periods to complete the table. Change to year ranges in the table if the ones below aren't the 10-year periods you want study (7 points)										
Year ranges	1949-58	1959-68	1969-78	1979-88	1989-98	1999- 2008	2009-18			
Mean or average yearly precipitation in inches for each 10- year period										
Was yo	our hypothes	sis correct o	r incorrect?	Why? (2 p	oints)					

\_\_\_\_\_\_ Date \_\_\_\_\_\_ Period/Mod \_\_\_\_\_\_

## 6. **Graphing**

Each team member will graph the mean or average yearly precipitation for each of the 10-year periods on a piece of graph paper using a pencil and a ruler. The teacher may provide you with graph paper that already has the Y axis and X axis drawn and labeled. If not, set up the Y-axis of the graph to fit all seven of the 10-year precipitation averages and the X axis to fit the seven decades at equal intervals apart. Put the seven data points on your graph and connect them using a ruler to observe the local precipitation trend over the 70-year period. (3 points)