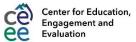


Activity 2 Jigsaw Worksheet

Name	Class
Research Group A – Air Temperature	
1. What does the x-axis show?	
2. What does the y-axis show? What are the units?	
3. Draw a vertical line on the graph at the following dates:	
 First day of spring First day of summer First day of autumn First day of winter 	
4. What is the warmest daily average temperature for the year? When	did that occur?
5. Temperatures are shown in degrees Celsius. Convert your high ten Fahrenheit so that you can better relate to what the temperature was. conversion °C to °F is: Multiply °C by 9, then divide by 5, then add 32	The formula for
6. What is the coldest daily average temperature for the year? When d	id that occur?
7. Convert your low temperature reading to Fahrenheit.	
8. During which parts of the year would you consider the temperatures most habitable?	in Eureka to be
Name	Class













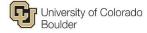
Activity 2

Research Group B – Wind Speed

1. What does the x-axis show?
2. What does the y-axis show? What are the units?
3. Draw a vertical line on the graph at the following dates:
 First day of spring First day of summer First day of autumn First day of winter
4. What was the maximum daily average wind speed during the year? When did that occur?
5. Convert the maximum wind speed from meters per second to miles per hour, so that the units are easier to relate to. <i>There are 1609 meters/mile</i> .
6. When were there periods of generally low wind speeds?
7. Can you see any pattern to when the winds were the strongest and when they were quieter?





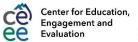






Activity 2 Jigsaw Worksheet

Name	Class
Research Group C – Snow depth	
1. What does the x-axis show?	
2. What does the y-axis show? What are t	he units?
3. Draw a vertical line on the graph at the f	ollowing dates:
 First day of spring First day of summer First day of autumn First day of winter 	
4. When was the greatest snow depth dur	ing the year? How deep was the snow?
5. Convert the value from millimeters to fe depth of the snow. 1 foot = 305 mm	eet and inches so that you can better relate to the
15-30 mm of snow. Upon analyzing the da	zero, but instead the data "wiggles" around between ata and recalibrating the instrument, the scientists were erroneous readings from the instrument. (See









Given that, what is your best estimate of when the snow-free season was in Eureka?



Activity 2 Jigsaw Worksheet

Name	Class
Research Group D – Incoming shortwave radiation	
1. What does the x-axis show?	
2. What does the y-axis show? What are the units?	
 3. Draw a vertical line on the graph at the following dates: First day of spring First day of summer First day of autumn First day of winter 	
4. What does downward short-wave radiation mean anyway? What is rwatts per square meter? Explain these concepts in your own words.	neant by the units of
5. What was the greatest amount of incoming radiation?	
6. On what date did the maximum incoming radiation occur?	
7. Why is there zero incoming radiation for a large part of the year?	

