

INSTRUCTIONS

Hello science students! We have broken the slides up into two parts:

Part 1: Week 1 Instructions (slides 2 – 5) are included from last week's packet for to review.

Part 2: Week 2 Instructions (slides 6 –). Continue tracking 14 days of weather for your capital city. Next, take 7 days worth of data for two criteria (ex: high temperatures and low temperatures) to create a bar graph to compare the data.

Week 1 Daily Weather

Guiding Question: How are daily weather data different from seasonal weather data?

Week 1: Introduction

When people talk about weather they often discuss how hot or cold it is (or is supposed to get) or if it will be sunny or stormy. The word **weather** is used to describe the outdoor conditions at a specific time and place. **Meteorologists** are scientists who study weather. When measuring and describing weather conditions, meteorologists collect and analyze data such as temperature, humidity, wind speed, air pressure, and **precipitation**. Precipitation is any form of water that falls from Earth's atmosphere to the ground. This includes rain, snow, sleet, and hail. The amount of precipitation and other weather data varies from hour to hour, data to day, and season to season.

Week 1: Directions

Continue to record the daily weather for your **EXPO country**

- a. Like a meteorologist, you will be recording the daily weather in the **capital city** for your **EXPO country**.
- b. Attached in the packet is a data table for recording this information. It is also available on Google Classroom.
- c. Record data for the **capital city** each day.
- d. Record the following criteria:
 - i. Date, day of the week, and time of your recording.
 - ii. High and Low Temperatures, Rainfall, Wind Speed, Wind Direction.
- e. Record 14 days worth of data.

Week 1: Resources

1. Any local news station
 - a. [kgw](#), [katu](#), [koin](#), [fox](#)
2. Weatherunderground.com
3. Weather.com

Week 2

Bar Graph

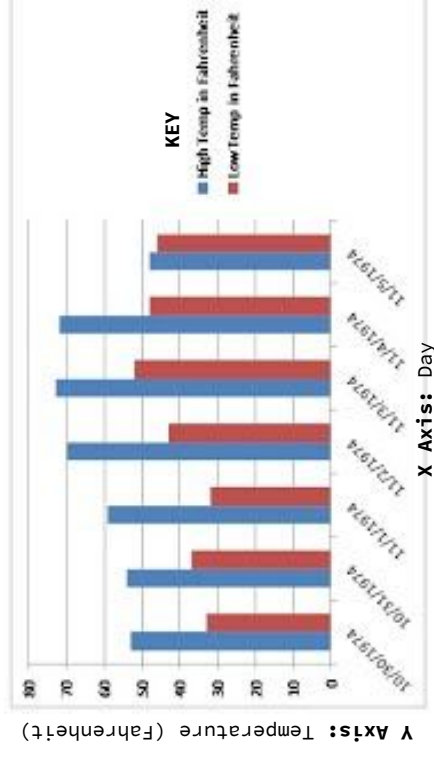
Guiding Question: How are daily weather data different from seasonal weather data?

Week 2: Compare Two Types of Data

1. Choose 2 criteria to compare in a bar graph:
 - High Temperatures vs. Low Temperatures
 - Wind Speed vs. Wind Direction
2. Graph a full week (7 days) of data to show the difference between the two elements.
3. Graph requirements:
 - a. Dates
 - b. Title
 - c. Key
 - d. Label X Axis
 - e. Label Y Axis and include units of measurement.
 - i. Example: for temperature, use degrees Celsius or Fahrenheit. Must be the same for both criteria!

Bar Graph Example:

Title: Daily Temperatures for Washington D.C., USA



My World EXPO Weather Graph!

