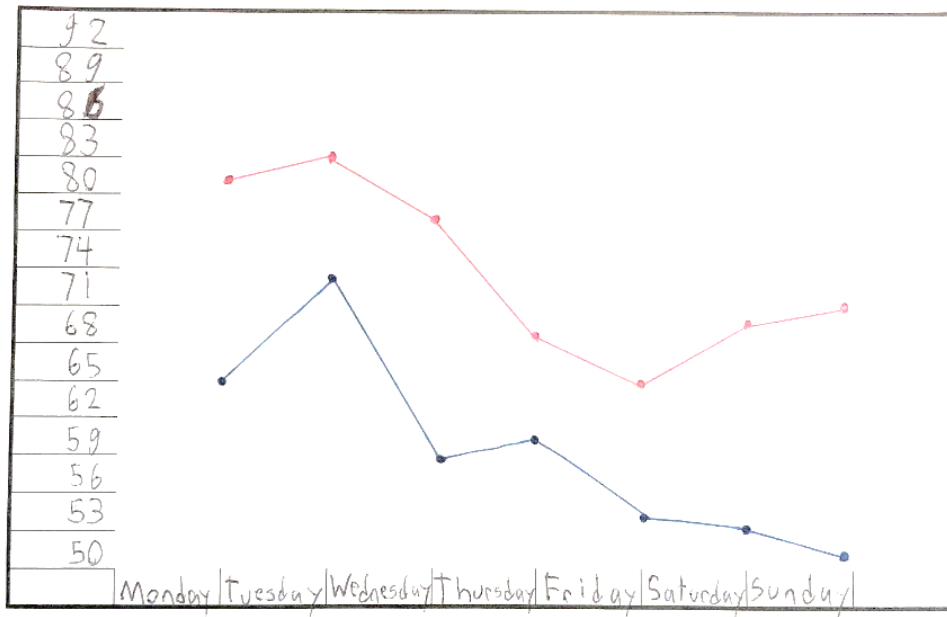




## Weather Data Lesson Plan Overview (ages 11 to 18 years old)



### High Level Overview (Part 1)

Student preparation in advance of lesson:

- Have a computer with virtual meeting software
- Print out or draw of a copy of the weather chart and graph

Student learning objectives:

- Collect and organize data
- Put data in a chart
- Draw a line graph

### More Info

Ages 11 to 18 years old – this overview will require adjusting to the unique needs of your students. For this lesson, you will use the weather chart and graph document. You can use the “Data Analytics” in the STEM@CGI at Home data lesson found in the activity packet for additional details.

## Weather Data (Part 1)

60 minutes

### Welcome and introduction

5 min

### Data

15 min

Discuss with the students some of the types of data and how data is used every day. Show students how to organize data in a table and how to graph that data.

### Data Analytics

35 min

- Each student should look at available weather sources and choose one.
- Each student should record the high and low weather temperatures from the source they chose once a day for 7 days. A table is provided for recording.
- Each student should make a line graph of the data. A chart is provided for recording.

### Q & A

5 min

## High Level Overview (Part 2)

Student preparation in advance of lesson:

- Have a computer with virtual meeting software
- Print out or draw of a copy of the weather chart and graph

Student learning objectives:

- Compare and discuss data

### More Info

Ages 11 to 18 years old – this overview will require adjusting to the unique needs of your students. For this lesson, you will use the weather chart and graph document. You can use the “Data Analytics” in the STEM@CGI at Home data lesson found in the activity packet for additional details.

## Weather Data (Part 2)

55 minutes

### Welcome and introduction

5 min

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### Data Analytics.

30 min

- Each student should talk about the source of their data.
  - Each student should show their table and how it correlates to their graph.
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### Talk it out

15 min

As a group, compare the difference between the weather data for each day from each source.

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### Q & A

5 min

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Supplemental information for this lesson can be found in the [STEM@CGI at Home Activity Pack](#).