**WEATHER PROJECT DUE DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CITY\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**LINKS**

Weather Underground**:** [**https://www.wunderground.com/**](https://www.wunderground.com/)

Zip Code Look-up: [https://tools.usps.com/go/ZipLookupAction!input.action](https://tools.usps.com/go/ZipLookupAction%21input.action)

Wundermap: <https://www.wunderground.com/wundermap>

Weather Front Symbols: <https://www.wpc.ncep.noaa.gov/html/fntcodes2.shtml>

**TASKS**

**Finding your city, recording weather and astronomy data listed below each day**

**Task 1 – Finding your city**

1. Find your state and city.
2. Make a dot to represent your city on your blank map.
3. Write the name of your city on the map next to the dot.
4. Using a yellow colored pencil, color in your state on the map.

**Task 2 – Start Recording your city’s weather:**

1. What is your adopted city’s zip code? US Zip Codes
	1. Add the zip code to your map.
	2. Using the zip code and weather website, find the current weather conditions
2. Record the weather for today on the data spreadsheet.
* Record the time in your city as you collect data?

**Task 3 – Astronomy Data:**

* What is the latitude and longitude of your city?
	+ You can find this on the weather website in the top left corner, above the current temperature.
	+ Record the latitude and longitude on your US map.
* On the weather website scroll down to “Astronomy Data”
	+ Find the following data:
		1. Record the **Actual** *Sunrise, Sunset, & Day Length*for your city
		2. Record*the Moon Rise Data* for your city on the spread sheet
		3. Record the Moon Phase for the day

**Task 4 – Weather Station Model**

1. Each day you will transfer the weather data you collect onto the mini weather maps provided.
2. Follow the Weather Symbols Reference Handout to fill in your weather maps

**Task 5- Fronts**

After you have collected, the data for the day label the fronts on your mini-map

* + Color in the precipitation
		- Indicate rain (green)
		- Indicate snow (blue)
	+ Draw the fronts
		- (using blue and red dotted lines), along with H and L
		- go to the WunderMap, click*“U.S. Fronts”*and *“Weather Stations”*

**Task 6– Time zones:**

1. What time zone is your city in? The information is posted on the weather site.
2. Using this website draw lines on your blank USA map to represent each time zone. Identify and label each one.
3. Answer the following questions by adding it to your map:
	* How many time zones are there in the United States?
	* Is your city in the same time zone as Atlanta, Georgia?
		+ If not, what is the difference in time?

**Task 7- Climate Comparison & Map Skills**

Create a chart to include information about your city

* 1. Humid, Sub-humid, Semiarid, or Arid?
	2. Average annual temperature
	3. Average low temperature
	4. Average temperature in July
	5. Average annual precipitation in inches
	6. Percent of years with precipitation less than 20 inches
	7. Average number of sunshine per day December-February
	8. Average number of clear days
	9. Average relative humidity in July
	10. Average amount of snow each year