

## Desert Map Work

Name \_\_\_\_\_

1. Locate the five desert cities by latitude and longitude by marking the World Map with five different colors of dots. Draw a box on the map to create a legend. In the legend, identify each color of dot with its name (Phoenix, etc.) (10 points—5 for location on map and 5 for symbol in legend)

City	Latitude	Longitude
Phoenix, Arizona	33° 26' N	112° 4' W
Monterrey, Mexico	25° 41' N	100° 18' W
Giza, Egypt	30° 0' N	31° 12' E
Santiago, Chile	33° 28' S	70° 38' W
Uluru, Australia	25° 21' S	131° 2' E

2. With your group, create a climograph on graph paper for the city your group has been assigned. Remember the bar graph shows Average Monthly Precipitation and the line graph shows Average High Temperature. Be sure to label the graph so the units of measurement are clearly understood as well as the axes (Precipitation in inches) (Average High Temperature in Fahrenheit).

### Phoenix

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Prec	.9	.9	1	.3	.1	0	1.1	1	.6	.6	.7	.9
Temp	67	71	77	85	95	104	106	104	100	89	76	66

### Monterrey

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Prec	.6	.6	.8	1.2	2.1	2.7	1.7	3.1	5.9	3	.9	.6
Temp	69	74	80	86	90	93	95	94	89	82	75	70

### Giza

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Prec	.25	.2	.2	.1	.1	.19	.2	1.7	0	0	0	0
Temp	63	65	77	81	90	95	95	91	90	83	78	70



### Santiago

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Prec	0	.1	.2	.5	2.3	3.1	3	2.1	1.1	.5	.2	.2
Temp	85	84	80	72	64	58	57	61	65	71	77	82

### Uluru

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Prec	1	1	2	0	0	0	0	0	0	0	1	0
Temp	99	96	92	83	74	68	68	72	79	88	93	98

Your group graph will be graded on:

- Correct labels and spelling (10 pts)
  - Correctly done bar graph (10 pts)
  - Correctly done line graph (10 pts)
  - Worked cooperatively with each member helping (10 pts)
  - Color and neatness of graph (10 pts)
- Total 50 points

#### Answer the following questions:

1. Which city has the least amount precipitation for a year? (5 pts)
  - How did you arrive at this answer? (5 pts)
  - Is your answer based on fact or opinion? (5 pts)
2. Which city has the highest average temperatures for a year? (5 pts)
3. Give two examples of how the climate of Giza would have helped or hurt the people living and farming in ancient Egypt? (5 pts)
4. Look at your map. Are all deserts located in one part of the world? Explain. (5 pts)



5. How can you explain that in Phoenix the average high temperature for July was 106°F but it was 68°F in Uluru?

**Short Answer Essay Question (5 pts)**

**People often say that deserts are hot, dry lands. Is this statement true?** Use the information from the charts above (Phoenix, Giza, etc.) as well as the information below (Antarctica) to answer this question.

Average Antarctica Precipitation in Inches

Jan	.7	July	.5
Feb	.8	Aug	.5
Mar	.6	Sept	.4
Apr	.6	Oct	.5
May	.9	Nov	.5
June	.9	Dec	.4

Average Antarctica Temperature in Fahrenheit

Jan	30	July	-21
Feb	19	Aug	-23
Mar	4	Sept	-17
Apr	-2	Oct	-9
May	-6	Nov	11
June	-4	Dec	22

Write your essay here.

**Answer Key to the following questions:**

1. Which city has the least amount precipitation for a year? (5 pts)

Giza

- How did you arrive at this answer? (5 pts)  
By adding precipitation amounts
- Is your answer based on fact or opinion? (5 pts)

fact

6. Which city has the highest average temperatures for a year? (5 pts)

Phoenix

7. Give two examples of how the climate of Giza would have helped or hurt the people living and farming in ancient Egypt? (5 pts)

- Lack of rain would make farming very difficult.
- People would have to find well water or be near some other source of water to survive.
- People would not be cold or need much fuel for heating.
- Homes could be built with mud or earthen materials and not be washed away by rain.
- It would be difficult to have large herds of domesticated animals because of the lack of rainwater.

8. Look at your map. Are all deserts located in one part of the world? Explain. (5 pts) No deserts are found on most continents.

9. How can you explain that in Phoenix the average high temperature for July averages 106°F but it averages 68°F in Uluru? Phoenix is in the Northern Hemisphere and it is summer in July. Uluru is in the Southern Hemisphere and it is winter in July.

**Short Answer Essay Question (5 pts)**

**People often say that deserts are hot, dry lands. Is this statement true?** Use the information from the charts above (Phoenix, Giza, etc.) as well as the information below (Antarctica) to answer this question. Answers should vary but will include the idea that regions called deserts are not defined by temperature. They are defined by precipitation as being arid-- having 10 inches or less of rain per year on average. Antarctica has about 7 inches of precipitation each year. However, what falls there piles up and may not melt the next year. So Antarctica may have many feet of precipitation in layers that have not melted. And true, some deserts are hot (like the Sonoran—Phoenix) but they do not have to be.

