

The Great Salt Lake.

Name _____

Exploring biological and geomorphological connections in the landscape

Video: 1-17 min <https://www.pbs.org/video/the-great-salt-lake-ate5el/>

1. What is the food source that keeps millions of birds coming to the Great Salt Lake and also supports a million-dollar industry?
2. Describe the north arm of the Great Salt Lake:
3. Name the 3 ways brine shrimp can give new generations of brine shrimp.
 - a. Have _____ birth of nauplii
 - b. Lay _____ that hatch in a few days
 - c. Lay _____ that can resist drought and freezing for several years.
4. How are floating brine shrimp cysts gathered from the lake?
5. How many brine shrimp need to be left in the lake to ensure they can reproduce and regenerate? _____ shrimp/liter.
6. Name some of the migrating bird species that stop at the Great Salt Lake for food.
7. Name some things that Bonnie Baxter studies on the great salt lake:
 - a. _____ sunlight.
 - b. _____ salt content
8. What planet does the surface of the Great Salt Lake mirror? _____
9. As the lake shrinks, what are the 2 things that happen:
 - a. _____ of the bottom
 - b. Increasing _____ of the salt water.
10. What is a microbiolyte?

Landscape Connections. Go to this website for the Great Salt Lake. "Learn genetics Utah. Edu"

<https://learn.genetics.utah.edu/content/gsl/micro/>

READ → Click on the words next to the photo of the GSL to find information about its sections.

1. Identify the locations of the 7 main sections of the Great Salt Lake on the map **with color** and **initials**

- a. Bear River Bay – Yellow (BR)
- b. Farmington Bay – Green (F)
- c. Gilbert Bay – Blue (Gi)
- d. Gunnison Bay – Red (Gu)
- e. Ogden Bay - Orange (Og)
- f. Evaporation Ponds – Brown (Ev)
- g. Wetlands – purple



2. Draw a line for the Railroad causeway.
3. How does the Railroad causeway affect flow and mixing of the lake?
4. How many rivers flow into the lake? _____
5. Name the rivers that flow into the GSL:
6. Can you figure out where to add them to the map? Try and do!
7. Describe the water supply and features of the Bear River Bay.
8. What land mass separates Farmington Bay from the rest of the Great Salt Lake?
9. Draw a "STAR" on Antelope Island on the map.
10. What type of small organism is found in Gilbert Bay? Describe the salinity of the water.
11. Describe the 3 types of waters found in the Great Salt Lake wetlands.
12. Name three types of wetlands found around the Great Salt Lake.