Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_

*Review the chapter and answer the following questions for review.*

# 5.1 Prokaryotes

1. What does it mean to be planktonic? What is an autotroph?
2. Generally describe marine bacteria.
3. Describe decay bacteria.
4. Describe cyanobacteria.
5. What are stromatolites?
6. What are red tides?
7. Describe the Domain Archaea.
8. Describe the heterotrophic bacteria.

# 5.2 Unicellular Algae

1. Generally describe the term algae.
2. Briefly compare the two types of algae: the unicellular algae and the multicellular algae.
3. Fully describe diatoms and their frustules.
4. Describe the photosynthetic pigments in diatoms.
5. Describe reproduction in diatoms.
6. Describe diatom blooms.
7. Describe diatomaceous oozes.
8. Fully describe dinoflagellates.
9. Describe the photosynthetic pigments in dinoflagellates.
10. Describe reproduction in dinoflagellates.
11. Describe dinoflagellate blooms.
12. Describe zooxanthellae.
13. Describe bioluminescent dinoflagellates.

# 5.3 Protozoans: The Animal-Like Protists

1. Describe protozoans.
2. Describe foraminiferans.
3. Describe the life styles of forams.
4. Describe radiolarians.
5. Describe ciliates.
6. Fill out the following table (to help you organize information about unicellular algae).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Diatoms | Dinoflagellates | Protozoan Protistans | | |
| Foraminifera | Radiolarians | Ciliates |
| Shell or cell wall composition |  |  |  |  |  |
| Name of shell or cell wall |  |  |  |  |  |
| Description |  |  |  |  |  |
| Planktonic or benthic? |  |  |  |  |  |
| Trophic level |  |  |  |  |  |
| Flotation aids |  |  |  |  |  |
| Photosynthetic pigments |  |  |  |  |  |
| May form blooms? |  |  |  |  |  |

# 5.4 Fungi

28. Describe marine fungi.

*Use this area for longer answers. Use more paper if needed.*