

20-1 SECTION REVIEW

1. What are protists? When did protists first appear on Earth?
2. What evidence has led scientists to believe that symbiosis played an important role in the evolution of protists?
3. **Critical Thinking—Applying Concepts** How might the Endosymbiont Hypothesis explain the double membranes that surround organelles such as the mitochondrion, chloroplast, and nucleus?

20-2 SECTION REVIEW

1. List the four phyla of animal-like protists. Give an example of each.
2. Compare the forms of locomotion used by the four phyla of animal-like protists.
3. Describe the process of conjugation. Is conjugation a form of reproduction? Explain your answer.
4. **Connection—Ecology** In what ways are animal-like protists helpful to other living things?

20-3 SECTION REVIEW

1. List the four phyla of plant-like protists. Give an example of an organism in each phylum.
2. What are slime molds? Why is it appropriate for the slime molds to be considered protists?
3. Why is red tide particularly damaging to the shellfish industry?
4. **Critical Thinking—Expressing an Opinion** "Life on Earth depends on plant-like protists." Defend or refute this statement.

20-4 SECTION REVIEW

1. What are two characteristics of algae?
2. In which kingdom are multicellular algae placed?
3. Why are some unicellular algae classified as plants?
4. **Critical Thinking—Relating Facts** How are algae adapted to life in water?

20-5 SECTION REVIEW

1. What important factors are used to group algae?
2. What is one important difference between *Chlamydomonas* and *Volvox*?
3. **Critical Thinking—Relating Cause and Effect** Red algae often live in deep water. What important adaptation do red algae show that enables them to do this?

20-6 SECTION REVIEW

1. What is alternation of generations?
2. What is an advantage of asexual reproduction?
3. **Critical Thinking—Developing a Theory** How is alternation of generations an effective way of ensuring that fit individuals survive?

20-7 SECTION REVIEW

1. How have algae changed the atmosphere on Earth?
2. How would life on Earth be different if all algae suddenly became extinct?
3. What two foods contain algae products?
4. **Critical Thinking—Relating Concepts** How have algae contributed to our understanding of human disease?

18-1 SECTION REVIEW

1. What are protists? When did protists first appear on Earth?
2. What evidence has led scientists to believe that symbiosis played an important role in the evolution of protists?
3. **Critical Thinking—Applying Concepts** How might the Endosymbiont Hypothesis explain the double membranes that surround organelles such as the mitochondrion, chloroplast, and nucleus?

18-2 SECTION REVIEW

1. List the four phyla of animal-like protists. Give an example of each.
2. Compare the forms of locomotion used by the four phyla of animal-like protists.
3. Describe the process of conjugation. Is conjugation a form of reproduction? Explain your answer.
4. **Connection—Ecology** In what ways are animal-like protists helpful to other living things?

18-3 SECTION REVIEW

1. List the five phyla of plant-like protists. Give an example of an organism in each phylum.
2. What are slime molds? Why is it appropriate for the slime molds to be considered protists?
3. Why is red tide particularly damaging to the shellfish industry?
4. **Critical Thinking—Expressing an Opinion** "Life on Earth depends on plant-like protists." Defend or refute this statement.

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1. What are two characteristics of algae?
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1. What is alternation of generations?
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20-4 SECTION REVIEW

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