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CHAPTER 1: Supplemental Questions

2. What organisms are in kingdom fungi? Mushrooms, puffballs, yeasts, molds, mildews, truffles 3. Where is the main body of the mushroom located? underground What is it called? hyphae How large can it grow? can cover 30 acres	
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How large can it grow? Can cover 30 acres	
4. What are spores?	
Tough bits of living material used by mushrooms to reproduce	
5. What important function in nature do mushrooms serve?	
Decomposition – break down dead trees and other plant life, returning nutrients to the s	soil
6. What did Louis Pasteur discover about yeast?	
They are alive and they cause fermentation (they consume sugar and change it into car	rbon dioxide
and alcohol).	
7. What caused the juice to sour?	
Rod-shaped cells (bacteria) changed the sugar and alcohol into sour lactic acid.	
8. Why is mold a greater problem in Louisiana than in Minnesota?	
Mold thrives in warm, humid environments; Louisiana is warm and humid year-round.	
9. Where can molds be useful?	
Making penicillin and other antibiotics; making cheese	
10. Who discovered penicillin? Alexander Fleming	

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CHAPTER 2: Supplemental Questions

1.	Who were the first scientists to see tiny life? Anton van Leeuwenhoek and Robert Hooke			
2.	With a magnification of 270 times, Leeuwenhoek was able to glimpse a new category of small life, which included rod-like, ball-like, and corkscrew objects. What was this new category of life? bacteria			
3.	Describe the following organisms: Paramecium: shaped like a slipper; moves by waving cilia			
	Amoeba: no particular shape; moves by taking apart and rebuilding its internal structure			
	Euglena: contains chlorophyll (green in color); moves by whipping its flagellum			
4. 5.	1			
6.	What are diatoms? A type of single-celled algae			
7.	What are diatom shells made of? silicon dioxide (same material as sand) What are they used for? making dynamite sticks			
8.	How do algae benefit the atmosphere? Restore free oxygen to the atmosphere			
9.	Algae have chlorophyll and make their own food. Why don't biologists classify them with plants? No roots, stems, or leaves; no vascular structure to transport sap; can survive as a single cell			
10.	What characteristic is shared by all members of kingdom Protista? All protista have only a single cell.			

11. Name the five kingdoms.	
Plant, Animal, Fungi, Protista, Bacteria	
12. How do bacteria differ from Protista?	
Bacteria do not have a nucleus.	
13. What does anaerobic mean?	
Life without air	
14. Some bacteria are harmful because they cause disease	
15. Nitrogen-fixing bacteria are beneficial because they <u>restore nitrogen to</u>	the soil
16. Bacteria hasten the decay of dead organic material	I.
17. Non-living genetic material that only comes alive inside a living cell is a	virus
18. Can viruses be seen with an ordinary optical microscope?No	
What is required? an electron microscope	