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Life in a Drop of Water Video Guide

- 1. What do we call a life-form that is so small we need to look at it through a microscope in order to see it?
- 2. How many microorganisms can live in one drop of water?
- 3. What do humans have in common with the smallest microorganisms?
- 4. What is a cell?
- 5. How many cells does it take to make a living organism?
- 6. How many cells are there in a human body?
- 7. What parts do all cells contain, regardless of what organism they belong to?
- 8. What are the smallest microorganisms you can see with an ordinary microscope?
- 9. Why are bacteria important?
- 10. What is another important food source for many pond organisms?
- 11. What are algae?
- 12. What are protists?
- 13. How do algae obtain their food?
- 14. What is photosynthesis?
- 15. What is the green substance found in most algae?
- 16. What are clusters of algae called?
- 17. What are protists that possess flagella called?
- 18. What are protozoa and what does their name mean?
- 19. What are protozoa that possess cilia called?
- 20. What structures in protozoa allow them to take in and expel water?
- 21. How do most protozoa reproduce?
- 22. What is the name of the process during which protozoa exchange cell material?
- 23. What is the enclosure a protozoan forms when it enters a state of suspended animation?
- 24. How does an amoeba move?
- 25. What are the bubbles that protozoa form to surround food?
- 26.In what ways are protists important?
- 27. Name some of the microorganisms you might find in a drop of pond water.

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Izise in a Drop of Water Video Guide

ANSWERS

- 28. What do we call a life-form that is so small we need to look at it through a microscope in order to see it? (a microorganism)
- 29. How many microorganisms can live in one drop of water? (hundreds or even thousands)
- 30. What do humans have in common with the smallest microorganisms? (We are all made of cells.)
- 31. What is a cell? (the basic unit of which all living things are composed)
- 32. How many cells does it take to make a living organism? (Single-celled microorganisms have only one cell; larger organisms can have billions.)
- 33. How many cells are there in a human body? (billions)
- 34. What parts do all cells contain, regardless of what organism they belong to? (a nucleus, the control center of the cell; a substance called cytoplasm surrounding the nucleus, where many cell functions occur; a membrane, the sack-like container that holds the cell together)
- 35. What are the smallest microorganisms you can see with an ordinary microscope? (bacteria)
- 36. Why are bacteria important? (They are an essential food for other microorganisms.)
- 37. What is another important food source for many pond organisms? (algae)
- 38. What are algae? (plantlike organisms that appear in a variety of forms and belong to a larger group of organisms called protists)
- 39. What are protists? (Protists belong to a group of organisms that are neither plant nor animal.)
- 40. How do algae obtain their food? (through photosynthesis)
- 41. What is photosynthesis? (a process by which plants and algae convert water and carbon dioxide into food using the energy of sunlight)
- 42. What is the green substance found in most algae? (chlorophyll)
- 43. What are clusters of algae called? (colonies)
- 44. What are protists that possess flagella called? (flagellates)
- 45. What are protozoa and what does their name mean? (Protozoa are common one-celled organisms found in pond water; their name means "first animals.")
- 46. What are protozoa that possess cilia called? (ciliates)
- 47. What structures in protozoa allow them to take in and expel water? (contractile vacuoles)
- 48. How do most protozoa reproduce? (through fission)
- 49. What is the name of the process during which protozoa exchange cell material? (conjugation)
- 50. What is the enclosure a protozoan forms when it enters a state of suspended animation? (a cyst)
- 51. How does an amoeba move? (by sending out streams of cytoplasm called pseudopods)
- 52. What are the bubbles that protozoa form to surround food? (food vacuoles)
- 53.In what ways are protists important? (They form the bottom of the food chain; some are responsible for producing most of the air we breathe; many are used in scientific studies; some are carriers of disease.)
- 54. Name some of the microorganisms you might find in a drop of pond water.
 - bacteria algae protozoa paramecium blepharisma spirostomum dileptus stentor lacrymaria olor vorticella bursaria didinium amoebas rotifers daphnia (water flea) cyclops hydras giardia