

**Terms to Know:**

spontaneous generation  
abiogenesis  
responding variable  
Spallanzani

hypothesis  
control  
Redi  
Pasteur

manipulated variable  
Needham  
Anton van Leeuwenhoek

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4. C            5. A            6. B            7. B

15. Scientists should test only one variable at a time so that only one observable factor affects the observed results of the experiment.

16. A variable is a factor in an experiment that can change. A control is a factor in an experiment that is kept unchanged.

18. Redi used jars, meat, and gauze. The gauze was important because he used it to cover some jars; the gauze was his manipulated variable.

19. Whether microorganisms would grow in meat broth that was boiled and then left in containers.

20. It must be well supported by observation and experimentation by other scientists.