



Aim: What is biology?

Do Now: What are at least 3 ways you can tell that something is alive?

Homework:

Rd. pp. 17- 19
Copy & Ans p.19 # 2, 3,4,5,7




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Biology

Def: The study of life

Includes the following branches:

- biochemistry
- ecology
- cell biology-
- genetics-
- evolutionary theory
- microbiology
- botany
- zoology- entomology, ornithology
- physiology

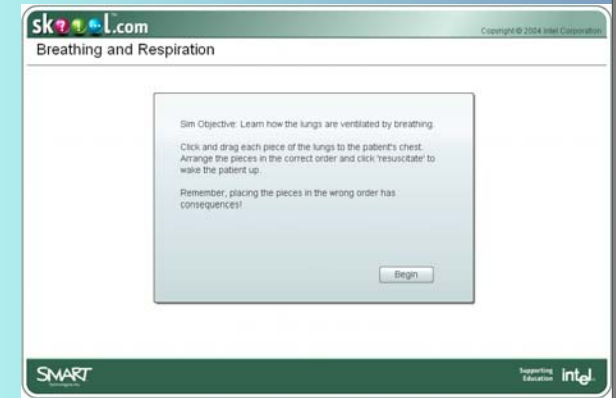


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Properties of Living Things

1. **Cellular organization-** the smallest unit capable of all life functions
2. **Homeostasis-** Maintenance of stable internal conditions as a response to changes in the external environment
Examples: shivering
3. **Metabolism-** all the chemical reactions carried out in the organism
- source of virtually all energy on earth is the sun
4. **Responsiveness-** when an organism responds to their external environment
5. **Reproduction-** process by which an organism makes more of itself
EX:
6. **Heredity-** when an organism reproduces it passes on its traits via this process
EX:
7. **Growth & Repair-** all living organisms grow and repair cell(s) as needed.
- Development is when an organism changes as it grows
EX:

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