

Questions page 40.

- 1a. Cellular organization, similar chemicals, energy use, response to surroundings, growth and development, and reproduction.
- 1b. Response to surroundings.
- 1c. The tree has all the characteristics of life although many living things move.
- 2a. Spontaneous generation is the mistaken idea that living things can arise from non living things.
- 2b. It is incorrect because spontaneous generation cannot occur. Living things can only arise from living things. Redi's and Pasteur's help to disprove spontaneous generation.
- 2c. Pasteur's experiment showed that new bacteria in broth appeared only when there were existing bacteria.
- 3a. A source of energy (food), water, living space, and stable internal conditions.
- 3b. Getting energy by eating food.
- 3c. This helps the arctic fox maintain an internal ~~body temperature stable enough~~ ~~even though the~~ temperature of the fox's surroundings changes.