



# Ch. 1-3 Worksheet Answers

Needs of Living Things

# 1. Explain homeostasis.

- The ability of an organism to keep conditions inside its body constant despite changes in environmental conditions.

2. Describe some adaptations that help animals maintain a constant body temp.

- The feathers of birds & the fur of mammals help to insulate them.
- Panting & sweating help animals to cool their bodies.
- Lizards bask in the sun when cold & hide in the shade when hot.

3. What does it mean to say an animal is coldblooded?

- It means that the animal's body temperature changes somewhat with changes in the temperature of the environment.

#### 4. What is advantage of being warmblooded?

- It allows an animal to be active during both day and night, in hot weather and in cold weather.

## 5. What is an advantage of being coldblooded?

- *Hint: Maintaining a constant body temperature through metabolism takes energy.*
- Because their energy demands are not as great, cold-blooded animals do not require as much food as their warm-blooded counterparts.

# Explain why each factor is necessary for life.

## ● ENERGY

- Needed by all living things to carry on their activities, like hunting, moving, growing etc.
- Plants need light energy to make their food.

## ● FOOD

- Source of energy & raw materials

## ● WATER

- Makes up most of the body; transports dissolved materials, needed for chemical reactions; raw material for photosynthesis

# Why necessary for life?

- OXYGEN

- Needed for respiration, the process by which food is broken down to release energy

- LIVING SPACE

- Provides resources an organism needs to grow and survive.