

Name: \_\_\_\_\_

Date \_\_\_\_\_

Per \_\_\_\_\_

Partner Read Chapter 3.3

Page 86 Intro: How do animals get energy for their cells (bodies)? How do plants get energy?

Page 87 sources of energy: define photosynthesis. Why is the sun so important to living things? What is the difference between an autotroph and heterotroph?

Page 87 figure 12: How does sunlight provide food for the zebra?

Page 88 The two stages of photosynthesis: what are the 2 stages of photosynthesis? What substance captures sun light/energy?

Page 89 Stage 2: what is the sunlight/energy used to make in stage 2? What materials is needed for stage 2 to occur? What are the two products (things that are made) during stage 2?

Page 90 Photosynthesis Equation: write out and label the equation

Page 90 section assessment (do here if you have enough room)

## Chapter 3.4 Respiration

### ***Before Reading:***

What does a fire need to burn?

What is released when fuel is burned?

### ***What is Respiration? Pages 91-92***

What process releases energy from food?

Why is respiration important?

Why do you think that muscle cells have many mitochondria?

How are breathing and cellular respiration similar?

How are breathing and cellular respiration different?

What happens in the cytoplasm?

Do you think plants have mitochondria?

In what stage is oxygen involved?

How do most animals get rid of carbon dioxide?

How do plants get rid of carbon dioxide and water vapor?

***Comparing Photosynthesis and Respiration: page 93***

Write the chemical equation for photosynthesis; below it write the chemical equation for respiration.

What is one product of respiration? What do plants use to make food?

Which process uses oxygen?

Which process uses carbon dioxide?

**Before reading:**

What is yeast? How do people use yeast?

***Fermentation: page 93-94***

Define in your own words fermentation.

What are the products of alcoholic fermentation?

What is a product of lactic-acid fermentation?

When might your body release energy using fermentation?

Compare and contrast fermentation and respiration. What do they have in common, what is different?