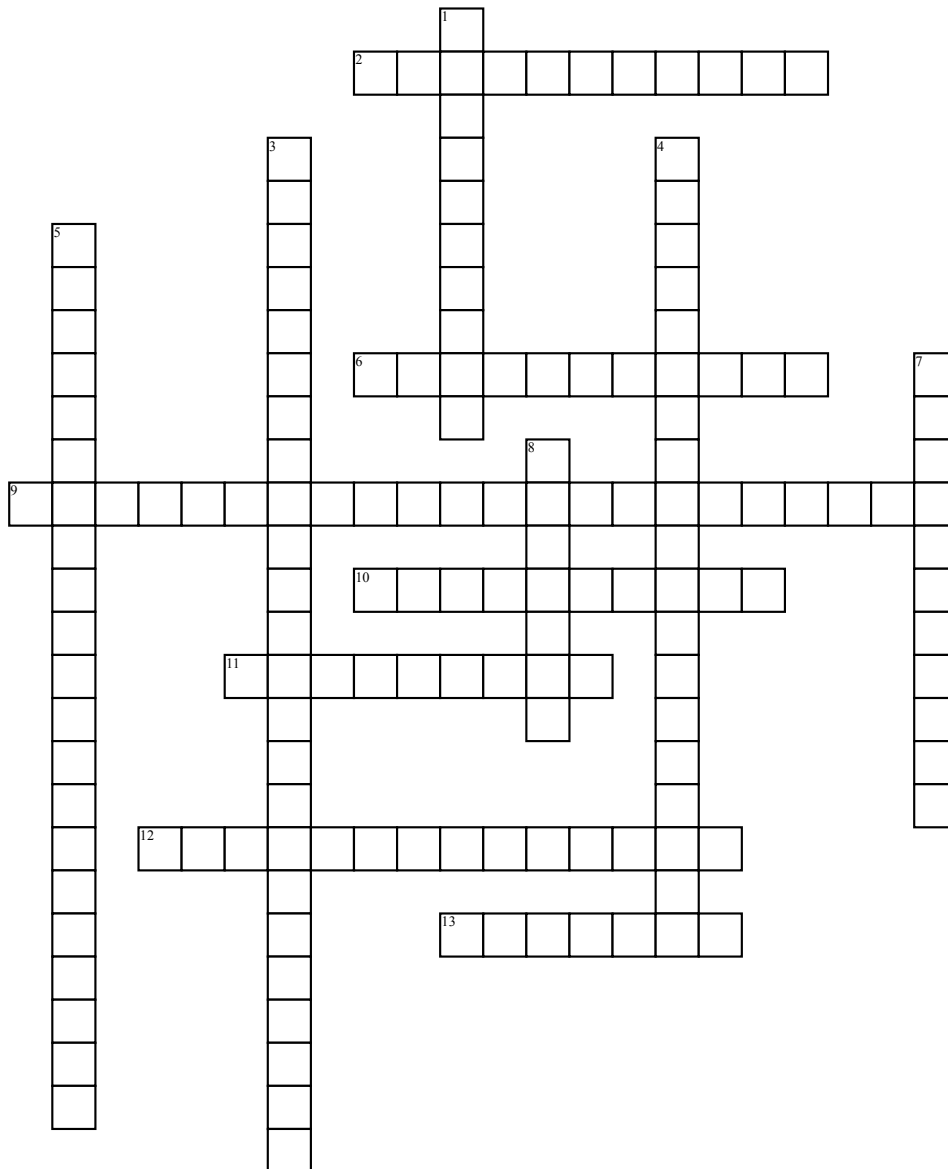


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Chapter 8 and 9 Biology



## Across

**2.** process by which cells release energy in the absence of oxygen

**6.** Organelle found in cells of plants and some other organisms that captures the energy from sunlight and converts it into chemical energy

**9.** Set of reactions in photosynthesis that use energy from light to produce ATP and NADPH

**10.** first set of reactions in cellular respiration in which a molecule of glucose is broken into two molecules of pyruvic acid

**11.** process that does not require oxygen

**12.** Process used by plants and other autotrophs to capture light energy and use it to power chemical reactions that convert carbon dioxide and water into oxygen and energy-rich carbohydrates such as sugars and starches

**13.** Light-absorbing molecule used by plants to gather the sun's energy

## Down

**1.** second stage of cellular respiration in which pyruvic acid is broken down into carbon dioxide in a series of energy-extracting reactions

**3.** Set of reactions in photosynthesis that do not require light; energy from ATP and NADPH is used to build high-energy compounds such as sugar (Calvin Cycle)

**4.** process that releases energy by breaking down glucose and other food molecules in the presence of oxygen

**5.** Compound used by cells to store and release energy (ATP)

**7.** Principal pigment of plants and other photosynthetic organisms

**8.** process that requires oxygen