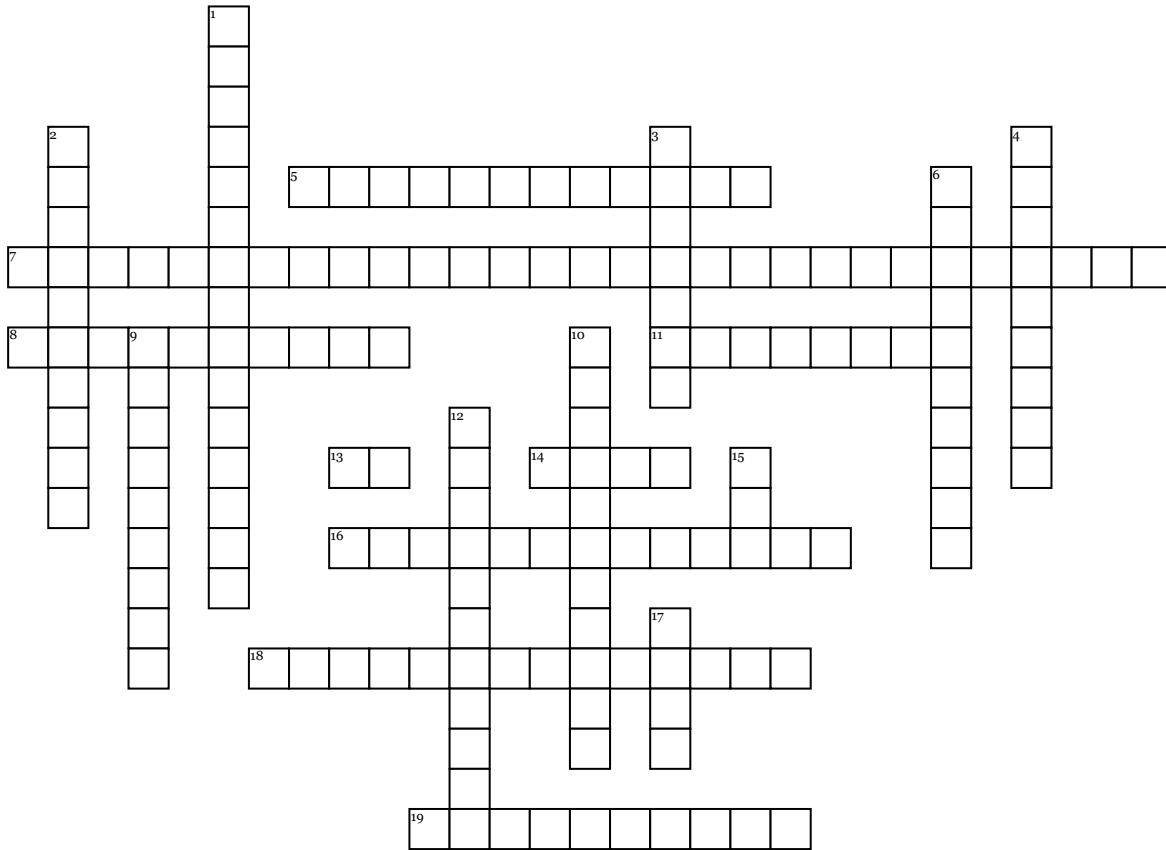


# Metabolism



## Across

**5.** In bacterial cells, the ETC is found on the \_\_\_\_\_

**7.** In fermentation, ATP is synthesized by \_\_\_\_\_

**8.** the total of all chemical reactions in the cell

**11.** Positive allosteric effectors \_\_\_\_\_ enzyme activity

**13.** What is the theoretical yield of ATP during aerobic respiration for eukaryotes?

**14.** oxidation is the \_\_\_\_\_ of electrons

**16.** take up of nutrients, elimination of wastes, and maintenance of ion balances

**18.** Which glycolytic pathway is most common?

**19.** \_\_\_\_\_ are different enzymes that catalyze the same reaction

## Down

**1.** Archaea use a type of phototrophy that involves \_\_\_\_\_

**2.** What is the model of enzyme-substrate interaction?

**3.** 1 \_\_\_\_\_ is equivalent to 4.184 J of work

**4.** \_\_\_\_\_ hydrolyzes protein to amino acids.

**6.** apoenzyme + cofactor = \_\_\_\_\_

**9.** the synthesis of complex organic molecules from simpler ones

**10.** What are the most important pigments in the light reactions of photosynthesis?

**12.** If  $\Delta G$  is negative, the reaction is \_\_\_\_\_

**15.** CoQ transports \_\_\_\_\_ electrons and two protons.

**17.** Cytochromes use \_\_\_\_\_ to transfer one electron at a time