

# Unit: Reproduction

## Mission B: DNA

### Mini Lesson #1: What is DNA?

- \_\_\_\_\_ or deoxyribonucleic acid is a \_\_\_\_\_ found in all \_\_\_\_\_ things and is a carrier of \_\_\_\_\_ information.
- \_\_\_\_\_ information are distinctive \_\_\_\_\_ or qualities of someone or something especially when they are thought of as \_\_\_\_\_.
- DNA is found within the \_\_\_\_\_ coiled into a double-stranded \_\_\_\_\_ which is tightly wound up into \_\_\_\_\_.
- Genetic information is \_\_\_\_\_ as a \_\_\_\_\_ that is made up of four chemical \_\_\_\_\_:
  - \_\_\_\_\_ (A)
  - \_\_\_\_\_ (G)
  - \_\_\_\_\_ (C)
  - \_\_\_\_\_ (T)
- The order of the \_\_\_\_\_ determines the information/\_\_\_\_\_ of an organism.
- The bases \_\_\_\_\_ up with a particular \_\_\_\_\_, \_\_\_\_\_ with \_\_\_\_\_ and \_\_\_\_\_ with \_\_\_\_\_
- Each \_\_\_\_\_ (rungs of the ladder) is attached to a \_\_\_\_\_ molecule and a \_\_\_\_\_ molecule (sidepieces of the ladder) creating a \_\_\_\_\_.
- DNA gives \_\_\_\_\_ to your cells to either \_\_\_\_\_ damaged cell parts or make \_\_\_\_\_ cells.
- DNA tells the \_\_\_\_\_ how to respond to \_\_\_\_\_ in their \_\_\_\_\_ and how to respond to \_\_\_\_\_ sent by other cells.

### Mini Lesson #2: DNA Replication

- DNA can make \_\_\_\_\_ perfect copies of itself in a process called \_\_\_\_\_.

- This process occurs in all \_\_\_\_\_ organisms and without this ability cell \_\_\_\_\_ would not be possible.
- It is the basis for biological \_\_\_\_\_.

DNA Replication:

- The double \_\_\_\_\_ strand of \_\_\_\_\_ DNA is “\_\_\_\_\_” and separated by an enzyme called \_\_\_\_\_.
- The two \_\_\_\_\_ strands of DNA each serves as an \_\_\_\_\_ for a new and \_\_\_\_\_ strands to be built.
- The complementary DNA strands are built when DNA \_\_\_\_\_ adds \_\_\_\_\_ to the 3' end of a strand of DNA.
- The two new strands of DNA are \_\_\_\_\_ and corrected if \_\_\_\_\_ in matching of \_\_\_\_\_ is found.