

Topic 1.1 Questions

Part A

1. Why is there variation among organisms on Earth?
2. If the bases on one strand of DNA are ATGGGCTA, what is the sequence of complementary bases on the other strand of DNA?
3. Think about a time you have seen a flock of Canada geese flying overhead. If you could examine the geese closely, would they look identical? Would they be genetically identical? Explain your answers.
4. Describe the structure of DNA.
5. What is the role of DNA in cells?
6. Suppose a section of DNA has 27% thymine (T).
 - a. What percentage of cytosine (C) does it have?
 - b. What percentage of adenine (A) does it have?
 - c. What percentage of guanine (G) does it have?
7. What is a genome?