MAKING A MODEL OF DNA
INSTRUCTIONS

1) Colour the individual structures on the worksheet as follows:

adenine = red	thymine = green
guanine = blue	cytosine = yellow
phosphate = brown	deoxyribose = purple

2) Cut out each structure.

3) Using the small symbols (squares, circles and stars) on the structures as guides, line up the bases, phosphates and sugars.

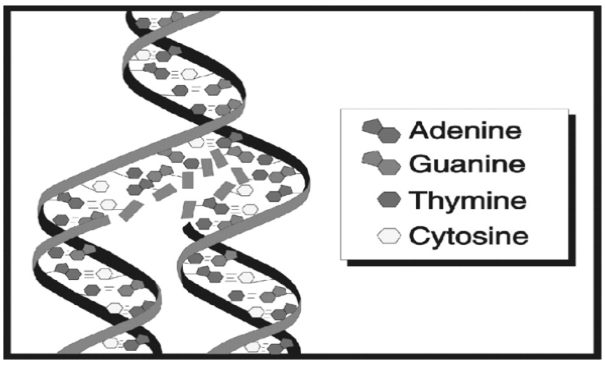
4) Glue the appropriate pairs together to form nucleotides.

5) Construct the right side of your DNA molecule by putting together in sequence a cytosine, thymine, guanine and adenine nucleotide.

6) Complete the left side of the DNA ladder by adding complementary nucleotides or nucleotides that fit. Your finished model should resemble a ladder.

7) To show replication of your model, separate the left side from the right side on your desk, leaving a space of about 15 to 20 cm.

8) Using the remaining nucleotides, add to the left side of the model to build a new DNA molecule. Do the same with the separated right side.

9) Tape or glue the nucleotides together to form two complete identical DNA ladders or molecules.

10) Answer the following questions.