

A. Answer the following questions.

1. What is the basic building block of nucleic acid?
2. What are the differences between DNA and RNA?



B. Do the following activities.

1. After knowing the basic components of DNA and RNA, you will now assemble 10-nucleotide long DNA and RNA.
  - a. You will be given a DNA and RNA kit. The kit must contain the following:

Colored Chips	Number of Pieces
yellow orange	8
blue	8
peach	2
pink	4
apple green	8



2. Assume that you are a criminal investigator and you want to solve a murder case. Consider the DNA fingerprint of the persons involved in the crime presented in the figure below, identify the real criminal. Explain your answer.

