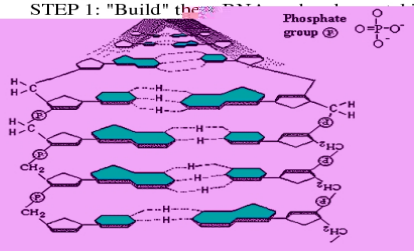
SAY IT WITH DNA: PROTEIN SYNTHESIS WORKSHEET: Practice Pays

Having studied the process by which DNA directs the synthesis of proteins, you should be ready to decode some DNA "secret" messages. To do this, you must follow the procedure of protein synthesis as this is taking place right now in your cells; no short cuts! Practice these steps by following and finishing the **partially solved message** below.

STEP 1: "Build" the



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ur different bases), what are the names of

es and pyrimides. Purines have

es have _____ ring(s) in their

a. _____

b. _____

3. DNA is a **polymer**, which means that is made up of many repeating single units (**monomers**). What are the monomer called?

_____

4. The "backbone" of the DNA molecule is made up of two components, what are these?

c. _____

d. _____

5. There are four different variations of these monomers (fo those bases?

a. _____

b. _____

c. _____

d. _____

6. These bases are of two different types of molecules: purin

_____ ring(s) in their structure, and pyrimidin

structure.

7. The two bases that are purines are:

a. _____

b. _____

8. The two bases that are pyrimidines are:

a. _____

b. _____