Name: _____ Period: _____

4.7 GENETIC MUTATIONS IN DNA

DEFINITION OF GENETIC MUTATION:

THREE GENERAL CAUSES OF MUTATIONS:

1. _____

2. _____

3. _____

     MUTAGEN

        EXAMPLES:

     CARCINOGEN

        EXAMPLES:

EFFECTS OF MUTATIONS ON PROTEINS:

MAJOR TYPES OF MUTATIONS:

1. POINT MUTATION

THE FAT CAT SAT

    EXAMPLE:

_____

2. FRAMESHIFT MUTATIONS: INSERTIONS & DELETIONS

INSERTION

THE FAT CAT SAT

_____

EXAMPLE:

DELETION

THE FAT CAT SAT

_____

EXAMPLE:

3.   NONSENSE MUTATION

THE FAT CAT SAT

_____

EXAMPLE:

4.   SILENT MUTATION

THE FAT CAT SAT

_____

EXAMPLE:

INHERITING MUTATIONS