

Mutations Worksheet

Activities One and Two

Activity One: What is a Mutation?

1. Go to learn.genetics.utah.edu/archive/mutations/index.html
2. Read this page.
3. Click on the "Mutate a DNA Sequence Activity" (yellow box; upper right)
4. Read the yellow boxes to the right and define the following terms:

Point mutation:

Missense Mutation:

Nonsense Mutation:

Silent Mutation:

Frameshift mutation (insertion/deletion):

what a plasmid is.	23. Explain
in what an episome is.	24. Are p
plasmids normally helpful or harmful?	25. Explain
in why plasmid genes are advantageous.	26. Explain
in the structure of an F factor plasmid.	27. Explain
in the difference between F+ and F- plasmids.	28. Explain
in the function of the resulting Hfr cell.	29. Explain
in how the new recombined bacterial cell gets genes from 2 different cells.	30. Explain
in the function of R plasmids and their affect on a colony of bacteria.	31. Can I
plasmids be transferred between cells? Explain	32. Explain
in what a transposon is and what it does.	33. Explain
in how this movement occurs.	34. Explain
in the target sites in bacteria.	35. Explain