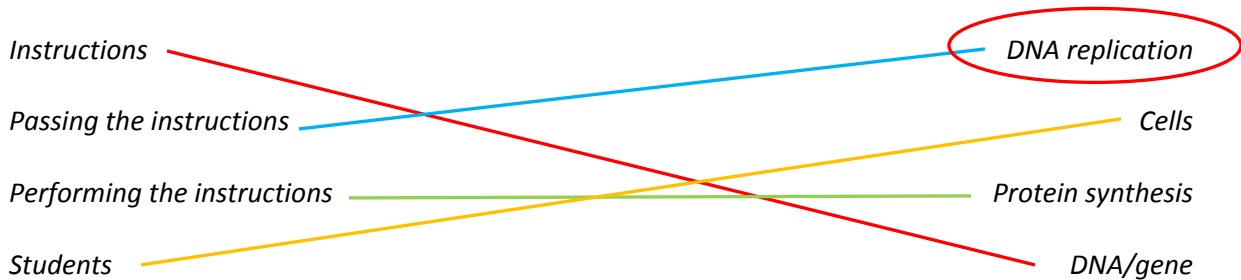


Mutation Telephone Worksheet **Answer Key**

1. **Draw lines** to match the action or item from the mutation telephone activity on the left with the biological process that it models or represents on the right.

Circle the process on the right during which a mutation is most likely to happen.



2. List the three types of mutations that could occur, and give a brief description of each.

1. **Substitution, a nucleotide base pair is replaced by another base pair**

2. **Insertion, an extra nucleotide base pair is added to the DNA**

3. **Deletion, a nucleotide base pair is removed from the DNA**

3. The mutation telephone activity was used as a model used to simplify how mutations occur. List one way in which the model simplified the biological processes that occur in real cells.

- **The instructions for the activity were much shorter than the DNA that a cell must copy.**
- **Mutations occurred more rapidly than real cells.**
- **Cells with mutations were able to survive and pass on the mutation.**
- **Many other possible solutions...**