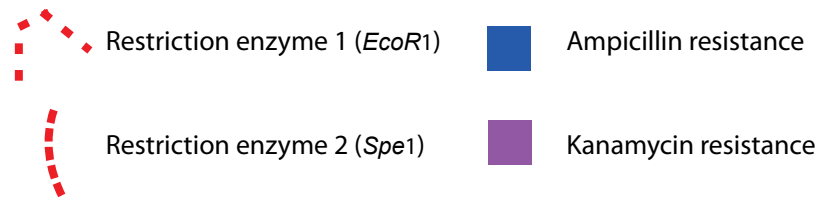
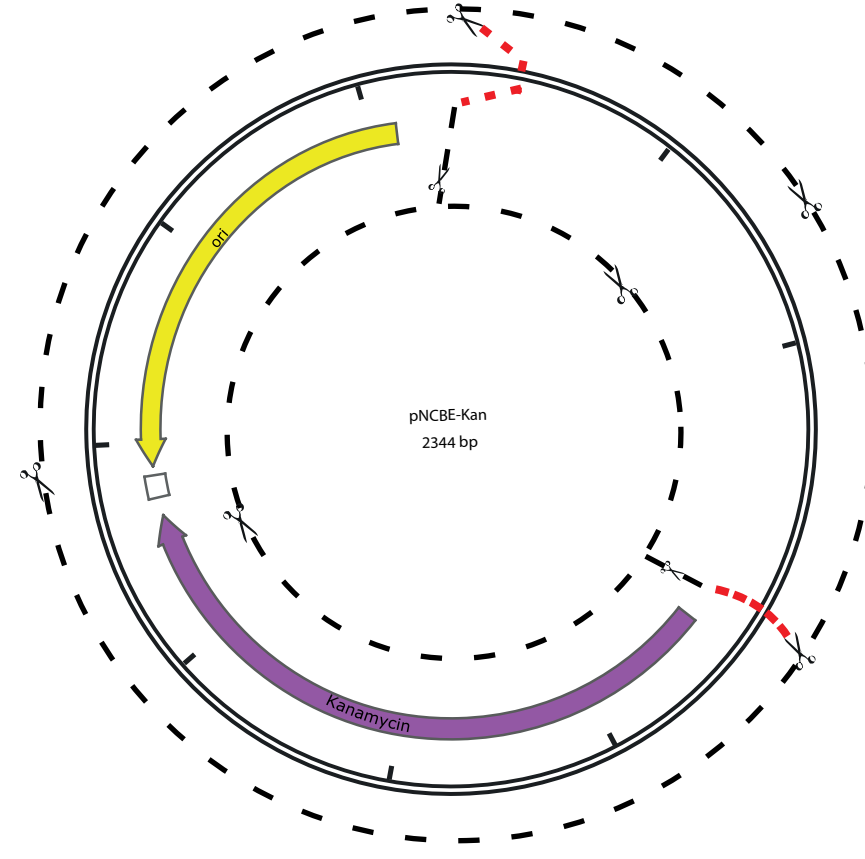
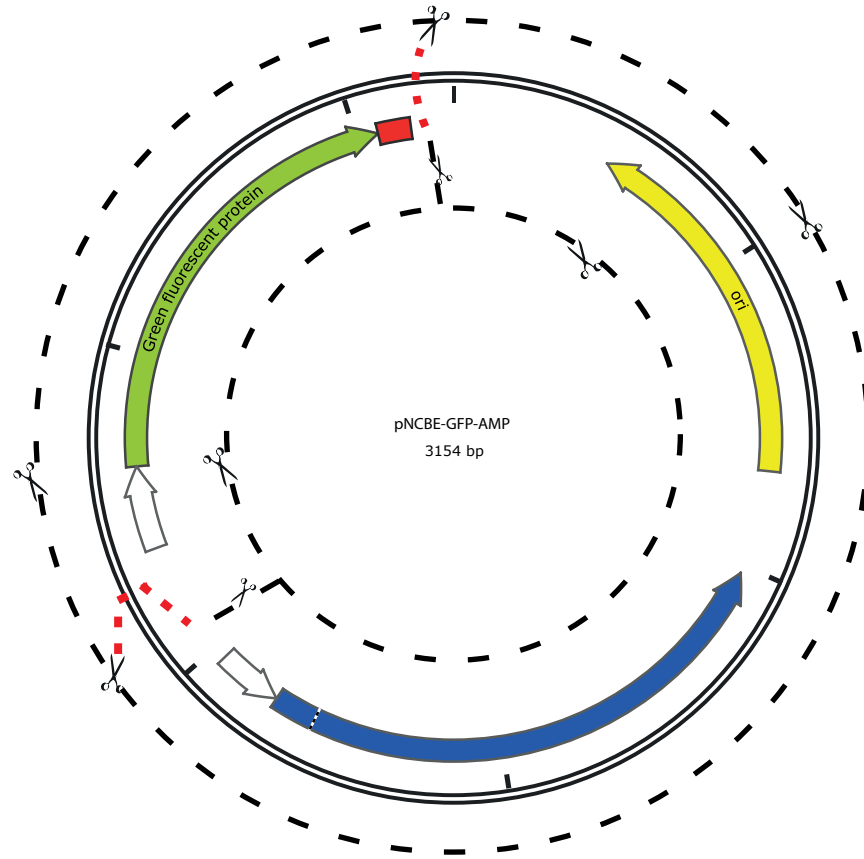


# Theory Task



1. Cut out both plasmids and then cut along the dashed lines inside the plasmids.
2. Carefully cut along the restriction enzyme cut sites.
3. Take the green or red fluorescent protein gene and insert it into the second plasmid containing the kanamycin resistance gene.
4. If you have cut out the parts of the plasmids carefully the restriction sites should line up.
5. We use the same two enzymes to cut both plasmids so that we get complementary ends, which will join with each other once we add the ligase which acts as the glue. This helps the green or red gene to insert correctly into the plasmid in the right orientation.