

Mutation Handout: Birds, Beaks, and Natural Selection Activity
No change in beak length: Mutation does not change beak length. Protein codes for a beak length the same size as the wild-type beak. Same as parent generation: two tongue depressors connected together (15 cm)
Long beak: Mutation changes beak length. Protein codes for a beak longer than the wild-type beak. Construct the long beak by using the long tongue depressors made of two tongue depressors glued together. Use a screw and rubber bands to secure the top of the beak like tongs. Wrap the rubber bands very tightly. Make sure that the beak will fully close!
Short beak: Mutation changes beak length. Protein codes for a beak shorter than the wild-type beak. Mark the halfway point of the tongue depressors in the wild-type beak. (7.5 cm) Using scissors, cut the wild-type beak in half along the 7.5 cm line.
No change in beak length: Mutation does not change beak length. Protein codes for a beak length the same size as the wild-type beak. Same as parent generation: two tongue depressors connected together (15 cm)