

Name: _____

Date: _____

Making Generation 2 Duckos

Information Needed

- Instructions for B allele: *Give the ducko a **RED** bill.*
- Instructions for b allele: *IF there is no allele with instructions for a **RED** bill, give the ducko an **ORANGE** bill.*

Steps

1. You and your partner will represent Generation 1 duckos that have grown up and are ready to produce ducklings (babies) of their own.

Which alleles do each of the parent duckos have? _____

Hint: Look at the chromosomes in your Generation 1 nucleus bag.

2. **Without looking**, shake the Generation 1 nucleus bag and remove one chromosome from it. Compare the allele on it with the allele on the chromosome your partner removed.

Write down the alleles for the **first generation** of ducko offspring:

Allele from Parent 1: _____ Allele from Parent 2: _____

3. Return your chromosome to your Generation 1 nucleus bag.
4. Using the Legos in your bag, follow the directions for the two alleles you drew for the first generation of duckos and build offspring with the correct bill color.
5. Repeat steps 2 through 4 to make your **second generation** of ducko offspring.

Write down the alleles for the first **Generation 2** ducko:

Allele from Parent 1: _____ Allele from Parent 2: _____