

Certification Exam

You have come a long way Journeyman! Every Drake Breeder must demonstrate a deep understanding of drake colors and armor, as well as the other drake traits. This is your chance to prove yourself!

To become a Master in the Drake Breeder's Guild, you must be able to create these four target drakes. Do not worry; it is not necessary to get all the drakes in one clutch.

General Tips

- Do some test breeding first with the parents provided. They are all charcoal in color, but your targets might include charcoal, ash, lava, or sand colored drakes. Experiment to determine which parents are capable of producing the additional colors.
- All targets require multiple rounds of breeding, saving offspring, and breeding again.
- Use the magnifying glass to view the alleles of the drakes to help you plan which to breed and which to save.
- Use Punnett squares to help you predict the outcomes of a particular breeding experiment.
- There are only 10 spaces in the stable, so delete saved drakes when you no longer need them.
- Consider breeding for one trait first until you get a pair that reliably produce offspring with that desired trait. Then breed those drakes to drakes with other desired traits until you have a mating pair that can produce one or more of the targets.

Problem-solving Guide

A true Master in the Drake Breeder's Guild would apply these guiding questions to each round of breeding and keep a clear and complete record of her/his ideas and work.

1. Which target are you trying to match- first, second, third, or fourth? What color is that target?
2. Which two drakes will you breed first and why?
3. What were the results of the breed?
4. Which offspring of this pair of parents will you save and why?
 - a. If this breeding experiment wasn't helpful, explain why it wasn't.
5. Which two drakes will you breed next and why?
 - a. Think about how many more breeding steps it might take to match the target and why.