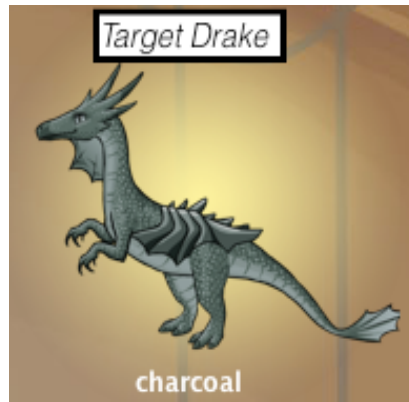


Case 3\_Assessment

1. Fill in the alleles for the father so that when he mates with the mother they could produce the offspring shown. [There are multiple ways to do this, you only need to show one.]

**Offspring**



**Mother**

*Female Drake*

A dragon with steel-colored scales, wings, and forelimbs. A label below it says "steel".

Genetic trait selection interface for the mother:

	Metallic ▾		Nonmetallic ▾
	No wings ▾		Wings ▾
	No forelimbs ▾		No forelimbs ▾
	Hindlimbs ▾		Hindlimbs ▾

**Father**

*Male Drake*

A dragon with steel-colored scales, wings, and forelimbs. A label below it says "steel".

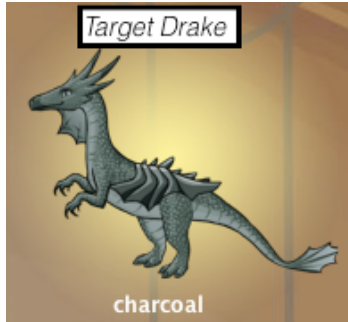
Genetic trait selection interface for the father:

	<input type="text"/>		<input type="text"/>
	<input type="text"/>		<input type="text"/>
	<input type="text"/>		<input type="text"/>
	<input type="text"/>		<input type="text"/>

Case 3\_Assessment

2. Fill in the alleles for the father so that when he mates with the mother they could produce both offspring shown.

*Offspring*



*Mother*

steel

Metallic  Nonmetallic

Wings  No wings

No forelimbs  No forelimbs

No hindlimbs  No hindlimbs

The mother's genotype interface shows a steel dragon at the top. Below it are two pairs of chromosomes: a blue pair on the left and a purple pair on the right. Each pair has four dropdown menus for alleles: Metallic/Nonmetallic, Wings/No wings, No forelimbs, and No hindlimbs.

*Father*

steel

The father's genotype interface shows a steel dragon at the top. Below it are two pairs of chromosomes: a blue pair on the left and a purple pair on the right. Each pair has two empty text input boxes for alleles.