

# Dragon Key

Phenotype	Genotype
breathes fire	AA or Aa
does not breathe fire	aa
4 toes	MM or Mm
3 toes	mm
5 spikes on tail	QQ or Qq
4 spikes on tail	qq
red tail	TT or Tt
yellow tail	tt
blue body and head	EE or Ee
green body and head	ee
red wings	LL or Ll
yellow wings	ll
horn	DD or Dd
no horn	dd

# Dragon Worksheet

## Data Sheet

Male Gene (1 <sup>st</sup> color)	Female Gene (2 <sup>nd</sup> color)

Trait	Genotype	Phenotype
Fire/No fire (A/a's)		
Toes (M/m's)		
Spikes on tail (Q/q's)		
Tail color (T/t's)		
Body color (E/e's)		
Wing color (L/l's)		
Horn/no horn (D/d's)		

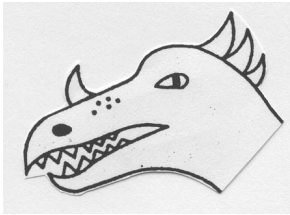
### **Analysis/Questions**

- Compare your dragon to other dragons around the room. What differences and similarities do you see?
  
- How do you explain all of the differences, even though the dragons all had the same set of parents?

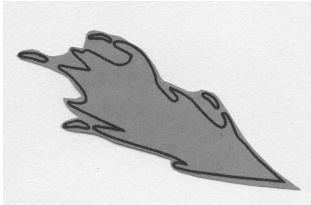


# How to Draw Dragon Parts

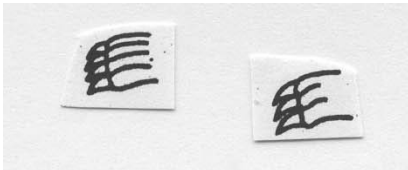
Here are some examples of parts that you may have to add to your dragon:



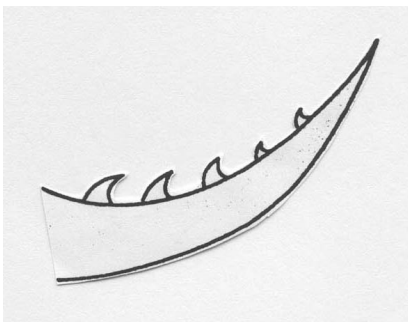
**Horn**  
**Genotype: DD or Dd**  
**(dd = no horn)**



**Ability to breathe fire**  
**Genotype: AA or Aa**  
**(aa = unable to breathe fire)**



**Number of toes**  
**Genotype for 4 toes: MM or Mm**  
**Genotype for 3 toes: mm**  
**All dragons have at least 3 toes!**



**Number of tail spikes**  
**Genotype for 5 tail spikes: QQ or Qq**  
**Genotype for 4 tail spikes: qq**  
**All dragons have at least 4 tail spikes!**