	Lesson 6.12	Dragon Traits				
Allele	Trait	Dominant/Recessive	Genotype	Phenotype	Hetero.	Homo.
A	Chin spike	Dominant	AA, Aa	Chin spike	Aa	AA
a	No chin spike	Recessive	aa	No chin spike		aa
В	Rounded tail spikes	Codominance	BB	Rounded tail spikes		BB
b	Pointed tail spikes	Codominance	bb	No tail spike		bb
	Rounded / Pointed tail spikes	Codominance	Bb	Pointed tail spikes	Bb	
С	2 Back spikes	Dominance/ Polygenic	CC	2 Back Spikes		CC
	1 back spike	Incomplete/ Polygenic	Cc	1 Back Spike	Сс	
c	No back spikes	Recessive/Polygenic	сс	No Back Spikes		cc
D	Visible ear hole	Dominant	DD, Dd	Visible ear hole	Dd	DD
d	No visible ear hole	Recessive	dd	No visible ear hole		dd
E	Pointed eye	Codominance	EE	Pointed eye		EE
e	Oval eyes	Codominance	ee	Oval eyes		ee
	Round eye at front	Codominance	Ee	Round eye at front	Ee	
F	Long neck	Dominant	FF, Ff	Long neck	Ff	FF
f	Short neck	Recessive	ff	Short neck		ff
G	No hump back	Dominant	GG	No hump back		GG
g	Large hump back	Recessive	gg	Large hump back		gg
	Small hump back	Incomplete	Gg	Small hump back	Gg	
Н	4 clawed feet	Dominant	HH, Hh	4 clawed feet	Hh	НН
h	3 clawed feet	Recessive	hh	3 clawed feet		hh
I	Long tail	Dominant	II, Ii	Long tail	Ii	II
i	Short tail	Recessive	ii	Short tail		ii

J	2 Back Spikes	Dominance/Polygenic	JJ	2 Back Spikes		JJ	
	1 Back Spike	Incomplete/Polygenic	Jj	1 Back Spike	Jj		
j	No back spikes	Recessive/Polygenic	jj	No back spikes		jj	
K	Red eyes	Dominant	KK, Kk	Red eyes	Kk	Kk	
k	Yellow eyes	Recessive	kk	Yellow eyes		kk	
L	Spots on neck	Pleiotropic	LL, Ll	Spots on neck	Ll	LL	
l	No spots on neck	Pleiotropic	11	No spots on neck		11	
M	Wings	Dominant	MM, Mm	Wings	Mm	MM	
m	No wings	Recessive	mm	No wings		mm	
N	No fang	Dominant	NN, Nn	No fang	Nn	NN	
n	Fangs	Recessive	nn	Fangs		nn	
О	Spots on back	Pleiotropie	00, 00	Spots on back	00	00	
0	No spots on back	Pleiotropie	99	No spots on back		99	
P	Blue spots (thigh)	Pleiotropie	PP, Pp	Blue spots (thigh)	Pp	PP	
р	Gold spots (thigh)	Pleiotropie	pp	Gold spots (thigh)		pp	
Q	Bright Green	Dominant	QQ	Bright Green		QQ	
q	Purple	Recessive	qq	Purple		qq	
	Dark Olive	Incomplete	Qq	Dark Olive	Qq		
R	Small comb (head)	Dominant	RR, Rr	Small comb (head)	Rr	RR	
r	Large comb (head)	Recessive	rr	Large comb (head)		rr	
S	Normal pigment proteins, results in normal pigmentation determined by genotype at loci L, O, P and Q						
s	Abnormal pigment proteins, results in only yellow pigments, despite genotype at loci L, O, P and Q						
T	No elbow spike	Dominant	TT, Tt	No elbow spike	Tt	TT	
t	Elbow spike	Recessive	tt	Elbow spike		tt	
U	Long arms	Dominant	UU, Uu	Long arms	Uu	UU	
u	Short arms	Recessive	uu	Short arms		uu	
V	Chest plate	Dominant	VV, Vv	Chest plate	Vv	VV	
v	No chest plate	Recessive	vv	No chest plate		vv	

W	2 Back spikes	Dominant/Polygenic	WW	2 Back spikes		WW	
	1 Back spike	Incomplete/Polygenic	Ww	1 Back spike	Ww		
w	No back spikes	Recessive/Polygenic	ww	No back spikes		ww	
X	Female						
	Nose Spike and ability to fire breath are only on X chromosome, not on the Y						
Z	Nose spike	Dominant	ZZ, Zz	Nose spike	Zz	ZZ	
z	No nose spike	Recessive	ZZ	No nose spike		ZZ	
+	Non –fire breather	Dominant	+	Non-fire breather			
-	Fire-breather	Recessive	-	Fire breather			
Y	Male	Nose spike and ability to fire breather are only on X Chromosome, not on Y					