

Dragon Genome

Decoding of the Genes

<u>Chromosome #</u>	<u>Dominant Allele</u>	<u>Recessive Allele</u>
1	A – no chin spike	a – chin spike
2	B – nose spike	b – no nose spike
3	C – see below	c – see below
4	D – no visible ear hole	d – visible ear hole
5	E – see below	e – see below
6	F – long neck	f – short neck
7	G – no back hump	g – back hump
8	H – no back spikes	h – back spikes
9	I – long tail	i – short tail
10	J – flat feet	j – arched feet
11	K – spots on neck	k – no spots on neck
12	L – red eyes	l – yellow eyes
13	M – see below	m – see below
14	N – no fangs	n – fangs
15	O – spots on back	o – no spots on back
16	P – no spots on thigh	p – spots on thigh
17	Q – green body	q – purple body
18	R – small comb on head	r – large comb on head
19	S – see below	s – see below
20	T – see below	t – see below
21	U – regular thigh	u – pointed thigh
22	V – four toes	v – three toes
23	W – no chest plate	w – chest plate
24	X – no tail spike	x – tail spike
25	Y – fire breather	y – non-fire breather
26	Z – see below	z – see below

Codominant traits

EE – eyes pointed at each end	ee – round eye	Ee – eye round at front only
SS – red spots	ss – yellow spots	Ss – orange spots

Incomplete dominance

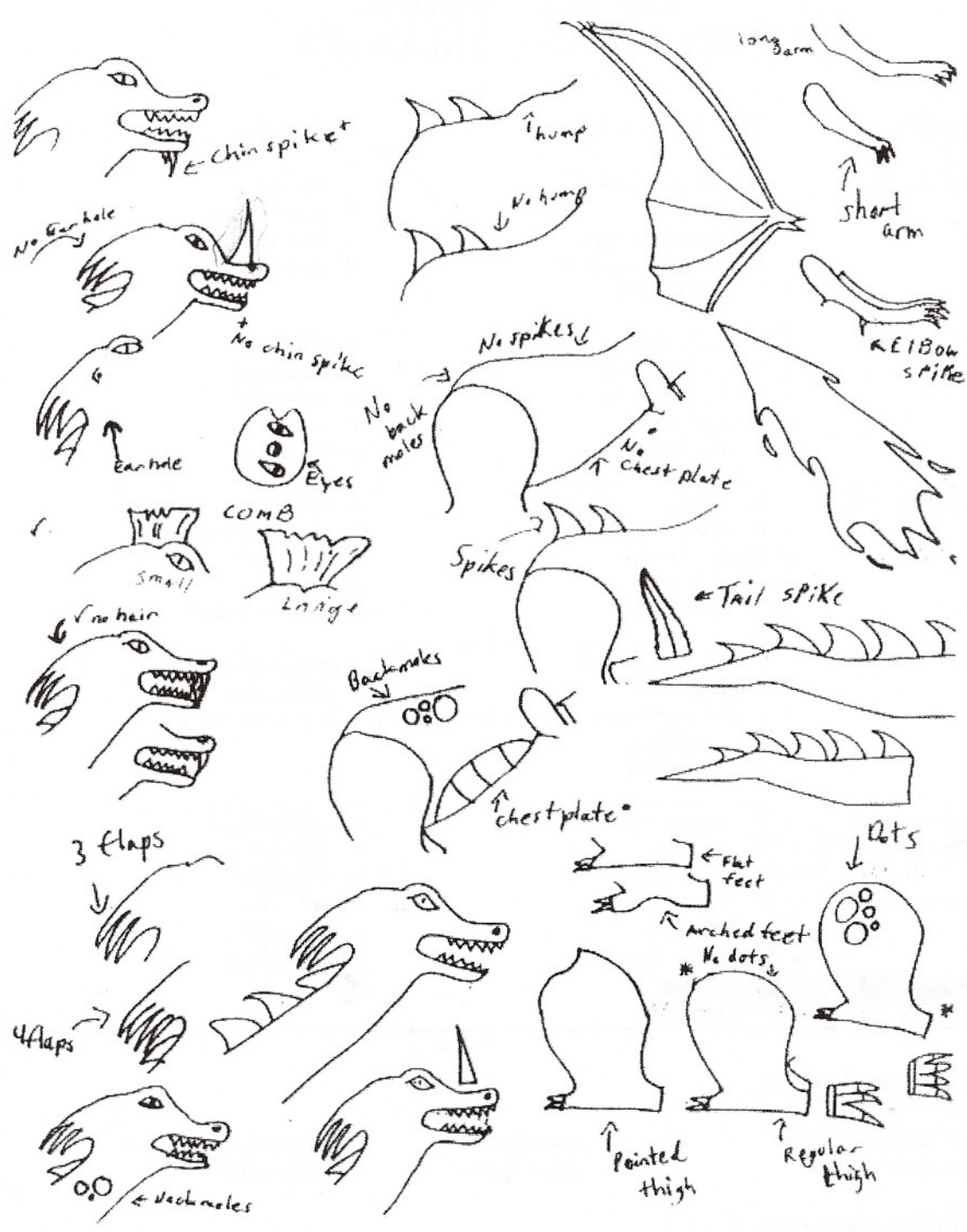
CC – three head flaps	cc – four head flaps	Cc – two head flaps
ZZ – short arms	zz – long arms	Zz – medium arms

Sex-linked

M – wings	m – no wings
T – no elbow spike	t – elbow spike

Your Dragons Genotype and Phenotype

Chromosome #	Genotype	Phenotype
1	_____	_____
2	_____	_____
3	_____	_____
4	_____	_____
5	_____	_____
6	_____	_____
7	_____	_____
8	_____	_____
9	_____	_____
10	_____	_____
11	_____	_____
12	_____	_____
13	_____	_____
14	_____	_____
15	_____	_____
16	_____	_____
17	_____	_____
18	_____	_____
19	_____	_____
20	_____	_____
21	_____	_____
22	_____	_____
23	_____	_____
24	_____	_____
25	_____	_____
26	_____	_____



DRAGON TEMPLATE

DIRECTIONS: Using a pencil, lightly trace the outline below on a clean sheet of white paper. Use this template and add your dragon's features to the drawing. Once completed, erase any unnecessary lines.

