

NewWorm Genetics	Two NewWorm Phenotypes	
	NewWorm3	NewWorm4
<b>Body:</b> Flat: <b>BB</b> or <b>Bb</b> Round: <b>bb</b>	flat body	round body
<b>Mouth:</b> Oval: ??    Slit: ??	slit mouth	oval mouth
<b>Head:</b> Broad: ??    Medium: ??    Narrow: ??	narrow head	medium head
<b>Rings:</b> No Rings: <b>RR</b> or <b>Rr</b> Rings: <b>rr</b>	rings	no rings
<b>Color:</b> Green: <b>CC</b> Brown: <b>Cc</b> Black: <b>cc</b>	brown	green
<b>Tail (Male):</b> Pointed: <b>TT</b> or <b>Tt</b> Blunt: <b>tt</b>	blunt	pointed
<b>Tail (Female):</b> Pointed: <b>T-</b> Blunt: <b>t-</b> (The Tail gene is on the <b>X</b> chromosome.) (The - [dash] stands for the <b>Y</b> chromosome.)	male	female
<b>Sex:</b> Males: <b>XX</b> Females: <b>XY</b>		

### PHENOTYPE-GENOTYPE MAPPING

For each characteristic, circle ALL of NewWorm3's and NewWorm4's possible genotypes.

Characteristic	NewWorm3					Characteristic	NewWorm4				
1. Body	BB	Bb	bb	B-	b-	7. Body	BB	Bb	bb	B-	b-
2. Mouth	MM	Mm	mm	M-	m-	8. Mouth	MM	Mm	mm	M-	m-
3. Head	HH	Hh	hh	H-	h-	9. Head	HH	Hh	hh	H-	h-
4. Rings	RR	Rr	rr	R-	r-	10. Rings	RR	Rr	rr	R-	r-
5. Color	CC	Cc	cc	C-	c-	11. Color	CC	Cc	cc	C-	c-
6. Tail	TT	Tt	tt	T-	t-	12. Tail	TT	Tt	tt	T-	t-

**Remember:**

- the allele for oval mouth (**M**) is dominant to the allele for slit mouth (**m**) and
- the allele for broad head (**H**) is incompletely dominant to the allele for narrow head (**h**) and medium head is in between broad and narrow.