

NewWorm Genetics	Two NewWorm Genotypes	
<b>Body:</b> Flat: <b>BB</b> or <b>Bb</b> Round: <b>bb</b>	<b>NewWorm1</b>	<b>NewWorm2</b>
<b>Mouth:</b> Oval: ??    Slit: ??		
<b>Head:</b> Broad: ??    Medium: ??    Narrow: ??		
<b>Rings:</b> No Rings: <b>RR</b> or <b>Rr</b> Rings: <b>rr</b>		
<b>Color:</b> Green: <b>CC</b> Brown: <b>Cc</b> Black: <b>cc</b>		
<b>Tail (Male):</b> Pointed: <b>TT</b> or <b>Tt</b> Blunt: <b>tt</b>		
<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.)		
<b>Sex:</b> Males: <b>XX</b> Females: <b>XY</b>		

### DIHYBRID INHERITANCE

Use the NewWorm1 and NewWorm2 genotypes to answer these questions about their babies.

#### Body and Rings

1a. Will a baby have a **flat body** AND **no rings**?

Definitely yes \_\_\_\_\_ Maybe \_\_\_\_\_ Definitely no \_\_\_\_\_

1b. What are the chances that a baby will have a **flat body** AND **rings**?

0 \_\_\_ 1/8 \_\_\_ 1/4 \_\_\_ 3/8 \_\_\_ 1/2 \_\_\_ 3/4 \_\_\_ 1/1 \_\_\_

OR impossible to tell from what's given \_\_\_

#### Color and Rings

2a. Will a baby have a **brown body** AND **rings**?

Definitely yes \_\_\_\_\_ Maybe \_\_\_\_\_ Definitely no \_\_\_\_\_

2b. What are the chances that a baby will have a **black body** AND **rings**?

0 \_\_\_ 1/8 \_\_\_ 1/4 \_\_\_ 3/8 \_\_\_ 1/2 \_\_\_ 3/4 \_\_\_ 1/1 \_\_\_

OR impossible to tell from what's given \_\_\_