

Making It As A Middle School Teacher



# LEPRECHAUN GENETICS



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# Leprechaun Genetics

Luke and Lola Leprechaun have been married for three years. They are about to have their first child. Use your knowledge of Genetics to help Luke and Lola figure out the chances of their baby being born with certain characteristics.

**For each question, list the allele for Luke and the allele for Lola.**

**Complete the Punnett Square and write your final answer.**

1. Red hair (R) is dominant in Leprechauns. Luke is homozygous dominant for this trait and Lola is heterozygous dominant for this trait.

Luke = \_\_\_\_\_

Lola = \_\_\_\_\_


What is the likelihood of Baby Leprechaun having red hair?

2. Green eyes (G) are dominant in Leprechauns. Luke and Lola are both heterozygous.

Luke = \_\_\_\_\_

Lola = \_\_\_\_\_


What is the likelihood of Baby Leprechaun being born with green eyes?

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3. Light skin (L) is dominant in Leprechauns. Luke is heterozygous for this trait and Lola is homozygous recessive for this trait.

Luke = \_\_\_\_\_

Lola = \_\_\_\_\_


What are the chances of Baby Leprechaun being born with skin color like his mother?

4. Having freckles (F) is dominant in Leprechauns. Luke's parents were both homozygous dominant for this trait while Lola's parents were both homozygous recessive for this trait.

Luke's Dad = \_\_\_\_\_

Luke's Mom = \_\_\_\_\_


Lola's Dad = \_\_\_\_\_

Lola's Mom = \_\_\_\_\_


Luke = \_\_\_\_\_

Lola = \_\_\_\_\_


What is the likelihood of Baby Leprechaun having freckles?

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5. Widow's Peaks (W) are dominant in Leprechauns. Luke and Lola are both heterozygous dominant for this trait.

Luke = \_\_\_\_\_

Lola = \_\_\_\_\_


List all possible alleles with the corresponding percentages for Baby Leprechaun.

6. For each of the previous five traits, list the **most likely** allele for Baby Leprechaun for each trait.

Hair = \_\_\_\_\_

Skin Color = \_\_\_\_\_

Widow's Peak = \_\_\_\_\_

Eyes = \_\_\_\_\_

Freckles = \_\_\_\_\_

Draw and color how Baby Leprechaun will most likely look.



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