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Lesson 3.1

Have you ever wondered why identical twins look exactly alike? In this lesson, you will read an article about identical twins, which will help you understand how organisms end up with the genes that determine their traits. Once you have read this article, you will be able to apply this understanding to the Darwin’s bark spider, further understanding why there is variation between and among the spider parents and their offspring.  
  
Unit Question  
• Why do traits vary, and why do they vary even between parents and offspring and among siblings?  
  
Chapter 3 Question  
• Why do the Darwin’s bark spider offspring have different gene combinations even though they have the same parents?

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\* Required

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Warm Up - The last time you saw the sisters pictured above, you considered how different protein molecules in their cells could lead to different traits. Now, you know that genes provide instructions for proteins that lead to traits. How could these sisters have ended up with different genes, leading to their different proteins and traits? Explain your ideas below. \*



Reading “Why Are Identical Twins Rare?” - As I read, I paid attention to my own understanding and recorded my thoughts and questions. \*

Never

Almost Never

Sometimes

Frequently/Often

All the time

Homework: Observing Inheritance in Darwin’s Bark Spiders - How did the offspring’s traits compare to their parents’ traits? \*

Your answer



How did the offspring’s gene versions compare to their parents’ gene versions? \*

Your answer



Homework: Reading “Invasion of the Periodical Cicada” - What are two reasons why arriving above ground all at once increases the cicadas’ chances of surviving and reproducing? \*

Your answer



Why do scientists think it is helpful to the periodical cicadas to emerge every 13 to 17 years? \*

Your answer



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in the picture above we can see the two sisters have different look and body structure because they have different protein molecules and traits and the variation of protein molecules and traits depends on different gene version because genes give instructions to produce protein molecules