By: Kristen Wilson

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| Text Set Title:  Life Sciences: Inheritance Of Traits | |
| Text Set Grade Placement: 9-12 | |
| Enduring Understandings | |
| Students will further understand the complexity of DNA and how it can be used. | |
| Text and Resources  (Indicate in what order the supporting works are to be introduced and taught.) | |
| Anchor Text | Title: The Gene: An Intimate History Reprint Edition, Kindle Edition by [Siddhartha Mukherjee](https://www.amazon.com/Siddhartha-Mukherjee/e/B003SNL6EA/ref=dp_byline_cont_ebooks_1)  (Author) |
| Supporting Works | Book(s) 1. The Gene: An Intimate History Reprint Edition, Kindle Edition by [Siddhartha Mukherjee](https://www.amazon.com/Siddhartha-Mukherjee/e/B003SNL6EA/ref=dp_byline_cont_ebooks_1)  (Author)  2. The Monk in the Garden: The Lost and Found Genius of Gregor Mendel, the Father of Genetics by[Robin Marantz Henig](https://www.barnesandnoble.com/s/%22Robin%20Marantz%20Henig%22?Ntk=P_key_Contributor_List&Ns=P_Sales_Rank&Ntx=mode+matchall)  Article(s) 4. Dream Jobs: Forensic scientist Newsela5. Lip prints—Variability and genetics http://www.sciencedirect.com/6. National Geographic - Magazine Subscription from Magazineline on amazon Infographic(s) 7. Biology Coloring Workbook: An Easier and Better Way to Learn Biology Clr Csm Edition by [Edward Alcamo](https://www.amazon.com/s/ref=dp_byline_sr_book_1?ie=UTF8&text=Edward+Alcamo&search-alias=books&field-author=Edward+Alcamo&sort=relevancerank) (Author)  Supporting Works will be introduced/taught in the following order:   1. Students will be introduced to the basics of genetics through the dragon genetic kit. They will complete coloring pages on DNA to better understand its structure. 2. Students will be introduced to the career of forensics through a reading. 3. Students will complete a reading on lip prints before they get to analyze lip prints. 4. Students will be able to read current material from *National Geographic.* |
| Standards | BIO1.LS3: Heredity: Inheritance and Variation of Traits |
| Rich, Authentic Task | |
| * Students will use the dragon genetic kit to better understand the basics of genetics. Students will investigate fertilization, alleles chromosomes, homozygous, heterozygous, and genotype-phenotype dominant recessive. * Students will then analyze the lip prints of each suspect in order to positively identify the “guilty” party. Students will relate these lip prints to genetics. | |