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There are several ways to navigate throughout your book. Changing to the previous or next page will differ by the type of format that your book is in.

Some books will have front or back arrows at either side of the page. Tap/click on the



or



buttons to change pages backwards or forwards.

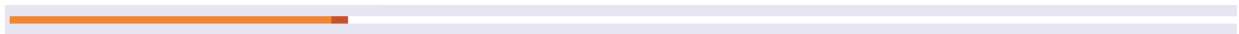
Other books will allow you to scroll through multiple pages of the book instead of clicking the backwards or forwards buttons. After scrolling through multiple pages, the option



will appear to continue to

the next section or chapter.

You may also navigate through the book by using the scrubber bar at the bottom of your screen. You can tap/click on the part of the bar which is the point of which you would like to be taken to.



You may also tap/click on the scrubber bar, hold your mouse and drag the bar to the page number you wish to land on. As you are dragging the scrubber bar, the page numbers will appear in the middle of your screen. Release your mouse at the page you wish to land on.

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- A **testcross** reveals an unknown genotype by breeding the individual to a homozygous recessive individual.

B. Meiosis Explains

FIGURE 10.16: Skin Color Follows a Polygenic Pattern
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- Mendel's **law of segregation** states that the two alleles of the same gene separate into different gametes. Each individual receives one allele of each gene from each parent.

10.3 Two Genes on Different Chromosomes Are Inherited Independently

A. Dihybrid Crosses Track the Inheritance of Two Genes at Once

- A **dihybrid cross** between individuals heterozygous for two genes yields a 9:3:3:1 phenotypic ratio if the genes are on different chromosomes.

B. Alleles of Different Genes Move Independently into Gametes

- According to Mendel's **law of independent assortment**, the inheritance of one gene does not affect the inheritance of another gene on a different chromosome. This law reflects meiosis, in which homologous pairs of chromosomes (and the genes they carry) align randomly during metaphase I.
- The **product rule** is an alternative to Punnett squares for following inheritance of two or more traits.

Exercises and Investigations

You may also tap/click on the page number box, enter in a page number and click Enter to navigate to a specific page

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