

### Reading and Questions

Read pages 58-60 in *Genetics: Breaking the Code of Your DNA* by Carla Mooney, and examine the diagrams on pages 64-65. Also read about sexual and asexual reproduction at the following link. In these readings, you will look at reproduction and meiosis. As you read, pay attention to the role that meiosis plays in forming gametes. Be sure to consider why meiosis leads to genetic diversity, and whether one reproductive method is better than another.

If you would like to learn more about meiosis, you can also watch the optional "Meiosis" video. Answer the following questions.

#### **Web Link:**

<https://www.movingbeyondthepage.com/link/10501/>

<https://www.movingbeyondthepage.com/link/10502/>

1. What does haploid mean? Diploid?

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2. What is the difference between somatic and reproductive cells?

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3. How does the beginning of mitosis compare to the beginning of meiosis? What is the final product of each process?

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4. What are some advantages and disadvantages to asexual reproduction?

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