

## Evidence for Evolution

How are DNA and comparative anatomy used to show relatedness?

### Why?

“You look just like your mother!” “He has his father’s eyes.” These comments that refer to the similarities between parents and their children are heard often in conversation. These similar traits are due to the genetic material that children inherit from their parents. As humans we are sometimes fortunate enough to have three or four generations sitting in a room at one time, and we can see the similarities from generation to generation. But how much do you look like your ancestors from 100 generations ago, 1000 generations ago or more? How much of your DNA did you inherit from those ancestors? What traits do you share with them?

### Model 1 – Family Characteristics



1. Model 1 is a family tree. Circle the original parents of the family.
2. How would you describe the organisms in the second row of Model 1 that are connected to the parents by a line?
3. Identify the three members of the family that “married in” by placing a star next to their figures in Model 1.
4. How are the organisms in the third line related to the organisms in the first line?

# Evidence And Evolution Pogil

**A Gutmann**



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