

DNA Builder

ACGT is an acronym for the four types of bases found in a DNA molecule: adenine (A), cytosine (C), guanine (G), and thymine (T). Adenine pairs with thymine, and cytosine pairs with guanine. Each felt piece included is a “puzzle piece” that only pairs with the right matching base.

The double-helix illustration is designed to fit the felt base pairs like the rungs of a DNA ladder. With a dry erase marker, write the name of one of the bases in the blank lines. Each line points to one side of the empty space. The line in the center-left position can be used to label the “sugar phosphate backbone”, or it can be customized to accommodate your lessons. Easily erase your marks with a wet paper towel.

Suggested activities:

1. Write in the names of the base pairs and have students match them up with the correct felt pieces.
2. True/False: mix and match the written names of the base pairs and have students determine if they are correct, based on whether or not the felt bases fit together.
3. Place the felt pairs in the spaces and have students write the corresponding letter (ACGT) beside the shape.

Choose your base pairs:



Adenine and Thymine (AT)

Cytosine and Guanine (CG)

