

Edible DNA



What you need

- 2 equal lengths of licorice
- 12 toothpicks
- Mini Marshmallows (9-green, 9-pink, 9-yellow, 9-orange)

How It Works

Choose either sequence below:

1. TACGTATGAAAC
2. TGGTTTAGAATT

(A) Adenine = Use green marshmallow

(T) Thymine = Use a pink marshmallow

(C) Cytosine = Use a yellow marshmallow

(G) Guanine = Use an orange marshmallow

Assemble one side of the DNA molecule by having the licorice form the backbone and marshmallows will be the chemical base. Insert the toothpick into one of the marshmallows so the point goes all the way through. Anchor the toothpick in the licorice backbone. Follow the order of the sequence you choose while using corresponding colored marshmallows. After you've completed the skewering the marshmallows and anchoring them, then match the appropriate base with what you've done. Keep in mind that A pairs with T and C pairs G. Once the pairs are

matched anchor the other piece of licorice to what you've done, twist and voila you have a DNA helix.



Fun Facts

DNA or Deoxyribonucleic Acid, provides instructions for how all living things grow and function. The instructions are divided into genes. The genes make proteins, which carry out specific functions in a cell. All living organisms have DNA and the genes each organism has is passed on to its offspring.

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Resources: <http://carnegiestemgirls.org/2017/08/03/edible-dna/> ; Picture 1- <https://cpb-ca-c1.wpmucdn.com/myriverside.sd43.bc.ca/dist/f/1774/files/2015/06/image-28pypj0.jpg>

Picture two-

https://www.bing.com/images/search?view=detailV2&id=563116596054F8C3069814E0BF0A9EF56673D758&thid=OIP.fwRJz_hsjmkUYb9_gS6M0QHaJ4&mediurl=http%3A%2F%2Fmyriverside.sd43.bc.ca%2Fheesooh-2014%2Ffiles%2F2015%2F06%2Fimage-28pypj0.jpg&exph=2448&expw=3264&q=edible+dna&selectedindex=3&qpv=edible+dna&ajaxhist=0&vt=0&eim=1,2,6