

Genetics Project: DNA model

Your job: Create a 3-D model of DNA. Use your imagination and find something that is in your house right now to make your DNA model.

You need to include the a) sides, b) bases and c) something to hold the model together.



Here are some suggestions of materials to use:

PARTS	MATERIAL SUGGESTIONS
Sides	Licorice, spaghetti, yarn, legos (anything that will serve as flexible backbones for your DNA model)
Bases	Gumdrops, colored marshmallows, jelly beans, sour patch candies, legos (anything with at least 4 different colors)
Connections	Toothpicks, glue, tape, legos, ANYTHING GOES!

* Remember: Be sure to match the correct bases!

- Adenine pairs with Thymine
- Guanine pairs with Cytosine

Bonus: Making the model twist will create a special challenge. **Think you can beat the twist?**

Grading Scale:

Grading of the model is dependent upon the following three criteria: accuracy 65%, completion 25%, and creativity 10%.

RUBRIC (40 points total):

1. Are all the parts present? (5 points)	_____
2. Is there a key of all the parts? (5 points)	_____
3. Are the parts assembled correctly? (8 points)	_____
4. Are the bases correctly paired? (10 points)	_____
5. Are there at least 8 pairings? (8 points)	_____
6. Is the project neat and creative? (4 points)	_____
7. BONUS: Does the DNA model twist? (5 points)	_____
TOTAL:	_____