

Candy DNA Student Sheet

name _____ per _____

Due Monday 9/9 - The rubric means it is a graded assignment.

Highly Proficient (4)	Proficient (3)	Close to Proficient (2)	Developing (1)
<ul style="list-style-type: none"><input type="checkbox"/> Molecules in the DNA backbone are correct and explained.<input type="checkbox"/> Difference between RNA and DNA is shown or explained.	<ul style="list-style-type: none"><input type="checkbox"/> Sketch is labeled correctly<input type="checkbox"/> Sketch is a useful model<input type="checkbox"/> Analysis questions are complete and mostly correct.	<ul style="list-style-type: none"><input type="checkbox"/> Sketch is mislabeled.<input type="checkbox"/> Sketch is not a useful model - incomplete or too messy.<input type="checkbox"/> Work is incomplete or needs more detail.	<ul style="list-style-type: none"><input type="checkbox"/> no understanding is shown<input type="checkbox"/> Lab is mostly incomplete and/or incorrect.

Use this sequence for your sketch : T A C G T A T G A A C

ANALYSIS QUESTIONS

1. Sketch your candy DNA model below.
2. Label each marshmallow / base with the correct letter. Add color to your sketch.
3. You may eat your model once it's sketched and the teacher has checked it!

4. How did you know which colors to pair up?

5. For each color, name the LETTER that bonds with each color.

a. yellow _____

b. green _____

c. pink _____

d. orange _____

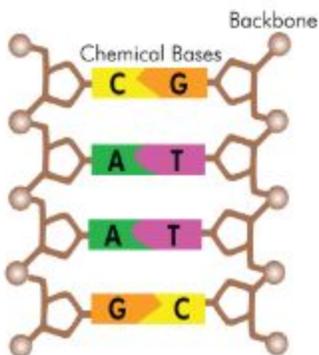
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6. Each part of DNA is made up of molecules. What do the toothpicks represent? _____

7. **HP** - The Red Vine backbone represents 2 molecules in DNA. *You need to do some research for this one.*

- What are the 2 molecules?
- Why are we able to represent both molecules with a Red Vine? Think about the pattern here.
- Show and /or explain how the backbone of DNA and RNA differ.



Adenine (A) = Green	
Thymine (T) = Pink	
Cytosine (C) = Yellow	
Guanine (G) = Orange	