

Name: _____ Period: ____ Date: _____

Dichotomous Candy Key

Use the dichotomous key below to classify each of the pieces of Candy. Always start at number 1. Read each pair of statements and decide which one best applies. Then follow the series until you find the scientific name. Write the common name and the determined scientific name of each piece of candy in the data table.

Dichotomous Key – Family: Candius

- 1a. Candy is chewy.....2
- 1b. Candy is hard.....7
- 2a. Candy is wrapped.....3
- 2b. Candy is not wrapped.....Ursa gummius
- 3a. Candy is rounded.....4
- 3b. Candy is not rounded.....5
- 4a. Wrapper is all white.....Saltus taffinia
- 4b. Wrapper is not all white.....5
- 5a. Wrapper is brown and white.....Tutus rollus
- 5b. Wrapper is not brown and white....6
- 6a. Wrapper is silver.....Chocolatus cyssan
- 6b. Wrapper varies in color.....Stellaria explodus
- 7a. Candy is spherical (ball-shaped)....8
- 7b. Candy is not spherical.....9
- 8a. Candy is wrapped.....11
- 8b. Candy is unwrapped.....Mandibulus crackus
- 9a. Wrapper is transparent.....10
- 9b. Wrapper tells the flavor.....Joyous rancheria
- 10a. Wrapper is clear.....Mintus stripus
- 10b. Wrapper is yellow.....Ranunculus scotchus
- 11a. Candy is on a stick.....Moronus moronus
- 11b. Candy is not on a stick.....Spherus combustus

Answer the following questions:

1. What is the scientific name for each candy?

Common Name	Scientific Name	Common Name	Scientific Name
A.		F.	
B.		G.	
C.		H.	
D.		I.	
E.		J.	
		K.	

2. What are the advantages of having only 2 choices at each step instead of more? Be specific in your answer.

3. What problems did you encounter in classifying the candies? Be specific and discuss fully.

4. How did you resolve your problems in #3?

5. Do classification keys go from general to specific characteristics or from specific to general characteristics? Explain why.

6. What does the first and second part of the Latin name represent in the scientific name of the organism?

7. Research Carolus Linnaeus and his contribution to modern classification.

8. Why are common names for organisms confusing (why scientific names are better than common names?)

Give an example of common names of an organism.

9. What is a dichotomous key? (define)

10. What is binomial nomenclature? (define)

11. Briefly describe how classification has changed before and after Linnaeus. Discuss Aristotle and classification and how these are different to how we classify today.

12. List the order of classification groups from Kingdom down to species.
