Candy Dichotomous Key Answer sheet

Spread out the candies on your table. Use the classification key to determine the scientific name of each candy.

Choose 1 candy. Start at step 1 and read the paired statements. Choose the statement that best describes that candy and go to the step that statement tells you. Continue following along using the same piece of candy until you have determined its name. Write its common name on the line. Then start with a new candy and follow the same procedure. YOU WILL ALWAYS START WITH STEP 1. Continue until you have named all 8 candies. You will only use each scientific name once.

**CANDY KEY**

1. a. Candy is hard. Go to step 2.  
   b. Candy is not hard. Go to step 5.

2. a. Candy is spherical. Go to step 3.  
   b. Candy is not spherical. Go to step 4.

3. a. Candy is on a stick.  
   b. Candy is not on a stick.  
   
   **Coccus podus** _lollipop_  
   **Coccus tinus** ___________

4. a. Candy has oblong shape.  
   b. Candy doesn’t have oblong shape.  
   
   **Bacillus frutus** _jolly rancher_  
   Go to step 6.

5. a. Candy is square.  
   b. Candy is not square.  
   
   **Esquadra frutus** _starburst_  
   Go to step 6.

6. a. Candy is flat. Go to step 8  
   b. Candy is not flat. Go to step 7.

7. a. Candy has oblong shape.  
   b. Candy doesn’t have oblong shape.  
   
   **Bacillus rollus** _tootsie roll_  
   **Pyramis bes** _hershey’s kiss_

8. a. Candy has 4 right angles.  
   b. Candy does not have right angles.  
   
   **Rectiano verdus** _andes mint_  
   **Platys blancos** _lifesaver_

**Conclude**

1. The scientific names are written as 2 words. This is called __binomial nomenclature__
2. The first word is the ___genus__.
3. The second word is the _word that describes a characteristic._
4. Use what you know about word origins and determine what platys means. ___flat___
5. What do you think bacillus means? _oblong_  
6. Which one candy is missing? ____ **Coccus tinus** Describe what that candy could look like and name a candy that fits those descriptions. _Spherical, hard, not on a stick. A jawbreaker, gumball, whopper_