

Name: _____

Date: _____

GRADE 12 BIOLOGY
UNIT D – BIODIVERSITY CLASSIFICATION
BINOMIAL NOMENCLATURE

Taxonomy, Classification, and Dichotomous Keys

Help! Scientists have discovered quite a few new creatures on planet Quillish. They need your help to identify and classify them. Use the dichotomous key to identify these creatures.

Key:

1. a. The creature has a large wide head.....go to 2
 b. The creature has a small narrow head.....go to 11
2. a. It has 3 eyesgo to 3
 b. It has 2 eyesgo to 7
3. a. There is a star in the middle of its chest.....go to 4
 b. There is no star in the middle of its chestgo to 6
4. a. The creature has hair spikes*Broadus hairus*
 b. The creature has no hair spikes.....go to 5
5. a. The bottom of the creature is arch-shaped*Broadus archus*
 b. The bottom of the creature is M-shaped*Broadus emmus*
6. a. The creature has an arch-shaped bottom*Broadus plainus*
 b. The creature has an M-shaped bottom.....*Broadus tritopsia*
7. a. The creature has hairy spikesgo to 8
 b. The creature has no spikes.....go to 10
8. a. There is a star in the middle of its body*Broadus hairystarus*
 b. There is no star in the middle of its bodygo to 9
9. a. The creature has an arch shaped bottom*Broadus hairyemmus*
 b. The creature has an M shaped bottom*Broadus rickinoid*

10. a. The body is symmetrical*Broadus winnipegus*
 b. The body is not symmetrical.....*Broadus manitobium*
11. a. The creature has no antennaego to 12
 b. The creature has antennaego to 14
12. a. There are spikes on the face*Narrowus wolfus*
 b. There are no spikes on the facego to 13
13. a. The creature has no spike anywhere*Narrowus blankus*
 b. There are spikes on the right leg*Narrowus starboardus*
14. a. The creature has 2 eyes.....go to 15
 b. The creature has 1 eye.....*Narrowus cyclops*
15. a. The creature has a mouth.....go to 16
 b. The creature has no mouth.....go to 17
16. a. There are spikes on the left leg[has no name yet: **you** name it!]
 b. There are no spikes at all*Narrowus plainus*
17. a. The creature has spikesgo to 18
 b. The creature has no spikes*Narrowus courtneyicus*
18. a. There are spikes on the headgo to 19
 b. There are spikes on the right leg.....*Narrowus mitchonius*
19. a. There are spikes covering the face*Narrowus beardus*
 b. There are spikes only on the outside edge of head ...*Narrowus fuzzus*

Write the binomial nomenclature identification of the creature beneath it.

