Biology Department

## Dichotomous Keys Using Smiley Faces

Instructions: Use the key below to identify the species name of each of the smileys below.

1. Teeth visible $\qquad$ go to 2
.....Teeth not visible $\qquad$ go to 4
2. Has a wide, toothy smile $\qquad$ Smilus toothyus ....Is not smiling .go to 3
3. Visibly crying Smilus dramaticus
.... Frowning Smilus upsettus
4. Eyes are symmetrical .... go to 5
....Eyes not symmetrical go to 8
5. Eyes shaped like hearts .. Smilus valentinus ....Eyes are shaped as ovals .go to 6
6. Smiling, happy face ...... Smilus traditionalis
.....Not happy, frowning or other .....go to 7
7. Mouth curved down, frowning .... Smilus saddus
.... Mouth is a small circle ................Smilus suprisus
8. Has a pirate eye patch ...............Smilus piratus
....Does not have eye patch go to 9
9. One eye is much larger than the other eye ...... Smilus mutatus

One eye is winking $\qquad$ Smilus winkus


## Extension:

A. The names of the smilies give you another bit of information about their taxonomy. Each of these smilies belongs to the same genus. What is their genus? $\qquad$
B. Names are often given to an organism by the person who discovers it, though they follow certain conventions, often they are named after the person, or where the organism was found, or given a name that describes the creature. Which convention was used in naming these smilies?
C. Suppose you discovered the new smiley pictured to the right.

What name would you give it?

## DICHOTOMOUS KEY ON NORNS

Norns belong to the genus Norno and can be divided into eight species that are generally located in specific regions of the world. Use the dichotomos key to identify the norns below. Write their complete scientific name (genus + species) in the blank.



A


B $\qquad$


E $\qquad$ F
C


Answer the following questions:

1. Using the dichotomous key, classify an organism that has small or no wings, shorter rear legs, not a horned head and small eyes

A) termite soldier
B) grasshopper
C) mosquito
D) butterfly
2. Using the circular key, classify an animal with 6 legs, 4 heads, 8 eyes and no mouth

A) Xero
B) Cara
C) Feep
D) Zeep
3. Using the dichotomous key, identify the name of the cnidarian labelled C.

A) Heliastra heliopora
B) Gorgonia
C) Astraea pallida
D) Pennatula
