## DICHOTOMOUS KEY

INTRODUCTION: Once plants and animals have been assigned by scientists to certain families, how do you figure out their names or species? This is done by using a device called an identification key.

OBJECTIVE: In science, organisms are identified and classified according to characteristics that they possess. These characteristics may be either similar to or different from those of other organisms. When differences are observed so that the presence or absence of a characteristic determines which category the organism (or object) falls into, the identification tool is called a DICHOTOMOUS KEY. In this activity, we will use a
DICHOTOMOUS KEY to give household items nonsense names.
PROCEDURE: 1. For each item provided, start with description \#1a and \#1b. 2. Follow the instructions at the end of the line of the description that fits your item until the end of the line provides a name for that item. 3. In the space provided on the answer sheet beside each nonsense name, write the actual name of the household item.

1a. Object is partly or completely made of metal
1b. Object has no metal on it
2a. Object has nonmetal parts
2 b . Object is completely made of metal
3a. Object is less than 10 cm in length
3 b . Object is 10 cm or greater in length
4a. Object is pointed at one end
4 b . Object is not pointed at one end
5 a . Object is greater than 10 cm
5 b. Object is 10 cm or less
6a. Object has a twisted area
6b. Object has no twisted area

Go to 2
Go to 16
Go to 3
Go to 5
Whippersnapper
Go to 4

## Tapered Doodad <br> Common Doodad

Go to 6
Go to 9

## Thingamajig

Go to 7

## Left-handed Monkey Wrench

Go to 8

## Geegaw

Scooperdoo
Go to 10
Go to 11

## Cashew <br> Whatsit

Go to 12
Go to 13

## Quinto

Uno
13a. Object is silver-colored Go to 14
13b. Object is not silver-colored Go to 15
14a. Object is less than 4 cm in length
Micro-Whatnot
14 b . Object is 4 cm or more in length
Macro-Whatnot
15a. Object is brass-colored
Skyhook
Dingus
Go to 17
16a. Object is whiteGo to 24
17a. Object has holes Wadget
17b. Object has no holesGo to 18
18a. Object has a circle in at least one dimension Go to 19
18 b . Object is not a circle in any dimension Go to 20
19a. The circumference of the circular dimension Bric-A-Bracis 6 cm or less
19b. The circumference of the circular dimensionis greater than 6 cm
20a. Object is made of plastic20b. Object is not made of plastic
21a. Object has 3 or more prongs
Roundabout
Go to 21
Go to 23
Doohickey
Go to 22
Gismo
Flim Flam
Wickey
22 b . Object does not have a cutting edge
23a. Object appears to have a stringrunning through its center
23b. Object does not appear to have a string running through its center
24a. Object is made of plastic24 b . Object is not made of plastic
25 a . Outer edge of the object is round
25 b . Outer edge of the object is not round
26a. Object has holes
26b. Object has no holes
27a. Object has 2 holes
27b. Object has 4 holes
28a. Object is made of glass
28b. Object is not made of glass
29a. Object is yellow in color
29b. Object is not yellow in color

## Scrubadub

Go to 25
Go to 28
Go to 26

## Whatchamacallit

Go to 27
Spinaroo
Bihole
Tetrahole

## Seethru

Go to 29

## Screecher

Soaky
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