Reverse Engineering

The goal is for you to take your device apart as you write directions for another group to put it back together.

Helpful hints:

- First explore how your circuit works. What does it do? How are the parts connected?
- Work in layers (layer 1, 2, 3 – top, middle, bottom).
  Breaking the de-construction into stages like this can simplify the instructions you write for the next group.
- Draw a picture!
  If you feel your instructions are difficult to understand, a picture or diagram can help clarify.
- Use the abbreviations labeled on the part.
  (S1, R1, U1, etc)
- Use the coordinate points provided on the grid.
- Write the list backwards.
  Start at the bottom of the page and work up!

Example: In layer 1, Place part S1 along F8 to D8 on the grid.

Directions:

Describe how your device should work and map it out in grid 1 of the worksheet. Remove the parts layer by layer and map each layer in the appropriate grid as you take notes. Use this to help you write out the instructions. Remember! The next group will be using your

instructions to re-build the device! Use the space below to take notes!

Device #_____

The purpose of the device is to

_____

_____

_____

Assembly Instructions:

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.

Discuss:
How would you improve this device?
Are there parts you could remove to make it more efficient?