

Materials:

Plastic Dish
Tape
Bowl

Light weight bar magnet
Water
Compass

Methods:

- 1) Obtain plastic dish.
- 2) Draw perpendicular lines to divide the space into four equal spaces.
- 3) Label the four contact points where the line meets the circle as North (N), South (S), East (E) and West (W).
- 4) Attach a light weight bar magnet to the plastic dish using tape. Place the magnet on the north-south line.
- 5) Use a bowl that is larger than the plastic dish and fill it with water.
- 6) Place the plastic dish with the bar magnet in the bowl, making sure that the plastic dish is floating.
- 7) Once the plastic dish stops rotating, determine where north, south, east and west are.

