# Cardinal Directions & the Compass Rose

      In order to know how to read a map and give directions, and how to find out where something is, you need to know how to use a compass. Most people think of a compass as having 4 points, North, South, East and West, but there is far more to a compass than you would think. First of all we need to know just what a compass is, and how it works. A compass is a tool that shows direction. It has a small, magnetized needle in it that swings. The needle can swing because it is balanced on a post, or because it is floating on oil or water, sometimes it is balanced and floating at the same time.

      The needle swings so that one end of it is always pointing to the magnetic north pole. Since the needle has two ends the end that points to the north has some sort of mark on it. Sometimes it is colored red, or has N printed on it and sometimes it just has a fancy arrow on the end.

**In Class Practice:**
Place your compass on the caution tape line.

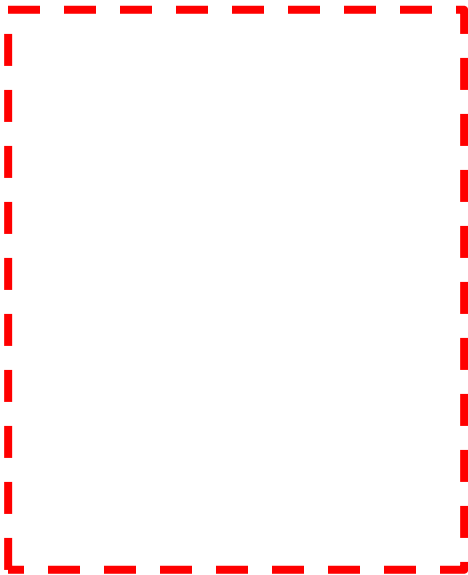Twist it until the orange arrow lines up with "N" for North.

Take a picture of the compass on the tape line. Make sure "N" for North (orange arrow) is pointing straight up!

Paste the picture onto the square on the left so the caution tape in the picture lines up with the yellow line.

Label North on the picture with the drawing function.
**The arrow points:**

|  |  |
|---|---|
| N | NE |
| S | NW |
| E | SE |
| W | SW |

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 18
    - S – go to station 17
    - E – go to station 16
    - W – go to station 15
    - NE – go to station 14
    - NW – go to station 13
    - SE – go to station 12
    - SW – go to station 11

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 10
    - S – go to station 9
    - E – go to station 8
    - W – go to station 7
    - NE – go to station 6
    - NW – go to station 5
    - SE – go to station 4
    - SW – go to station 3

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 2
    - S – go to station 1
    - E – go to station 18
    - W – go to station 17
    - NE – go to station 16
    - NW – go to station 15
    - SE – go to station 14
    - SW – go to station 13

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 12
    - S – go to station 11
    - E – go to station 10
    - W – go to station 9
    - NE – go to station 8
    - NW – go to station 7
    - SE – go to station 6
    - SW – go to station 5

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 4
    - S – go to station 3
    - E – go to station 1
    - W – go to station 2
    - NE – go to station 18
    - NW – go to station 17
    - SE – go to station 16
    - SW – go to station 15

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 14
    - S – go to station 13
    - E – go to station 12
    - W – go to station 11
    - NE – go to station 10
    - NW – go to station 9
    - SE – go to station 8
    - SW – go to station 7

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 6
    - S – go to station 5
    - E – go to station 4
    - W – go to station 3
    - NE – go to station 2
    - NW – go to station 11
    - SE – go to station 1
    - SW – go to station 18

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 3
    - S – go to station 4
    - E – go to station 5
    - W – go to station 6
    - NE – go to station 7
    - NW – go to station 8
    - SE – go to station 9
    - SW – go to station 10

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station15
    - S – go to station 14
    - E – go to station 13
    - W – go to station 12
    - NE – go to station 16
    - NW – go to station 11
    - SE – go to station 17
    - SW – go to station 18

**<u>Station #</u>_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 12
    - S – go to station 14
    - E – go to station 13
    - W – go to station 11
    - NE – go to station 10
    - NW – go to station 9
    - SE – go to station 15
    - SW – go to station 5

**<u>Station #</u>_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 5
    - S – go to station 6
    - E – go to station 7
    - W – go to station 8
    - NE – go to station 9
    - NW – go to station 12
    - SE – go to station 1
    - SW – go to station 2

**<u>Station #</u>_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 2
    - S – go to station 8
    - E – go to station 3
    - W – go to station 4
    - NE – go to station 5
    - NW – go to station 6
    - SE – go to station 7
    - SW – go to station 10

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 1
    - S – go to station 2
    - E – go to station 3
    - W – go to station 4
    - NE – go to station 5
    - NW – go to station 6
    - SE – go to station 7
    - SW – go to station 8

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 14
    - S – go to station 15
    - E – go to station 16
    - W – go to station 17
    - NE – go to station 18
    - NW – go to station 1
    - SE – go to station 2
    - SW – go to station 3

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 8
    - S – go to station 6
    - E – go to station 4
    - W – go to station 2
    - NE – go to station 7
    - NW – go to station 5
    - SE – go to station 11
    - SW – go to station 9

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 1
    - S – go to station 3
    - E – go to station 7
    - W – go to station 9
    - NE – go to station 4
    - NW – go to station 8
    - SE – go to station 6
    - SW – go to station 10

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 11
    - S – go to station 12
    - E – go to station 13
    - W – go to station 14
    - NE – go to station 15
    - NW – go to station 16
    - SE – go to station 17
    - SW – go to station 18

**Station #_____**
- Place compass on caution tape and twist
- Take picture and paste to the right
- Label North on the picture with the drawing function
- Which way does the arrow point?
    - N – go to station 2
    - S – go to station 18
    - E – go to station 1
    - W – go to station 17
    - NE – go to station 3
    - NW – go to station 15
    - SE – go to station 4
    - SW – go to station 14