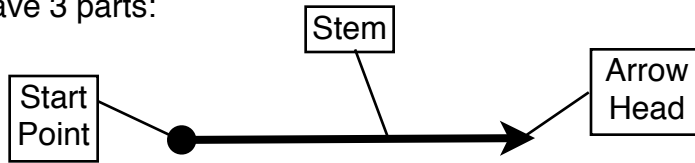


Vector Diagrams

- Vector Diagrams are a way of drawing the size of vector quantities
- Because vectors have both quantity and direction scientists use arrows to indicate vectors
- Vector arrows have 3 parts:



- Start Point-shows where the vector begins
- Stem-shows the size of the quantity
 - Larger quantities have longer stems



- Smaller Quantities have shorter stems



- There are 2 types of diagrams
 - Free-Body Diagrams
 - Used to show relative size of the vector
 - Length of the stem is not exact
 - Scaled Diagrams
 - Used to show exact size of the vector
 - Length of the stem is exact
 - Usually drawn on graph paper
 - Each square represents a fixed distance
 - Measure vector from start point to tip of arrow head
 - Example: Each square = 2m
 - Vector 'A'-4m North
 - Vector 'B'- 6m South
 - Vector 'C'- 10m West

