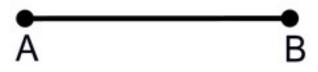
Name:	
Data:	Pariod:

Let's recall what we learned **yesterday**.

Create a copy of the below line segment. Remember to label your copied segment.



Great! Now it is time to try something new. NEW CONSTRUCTION TIME!



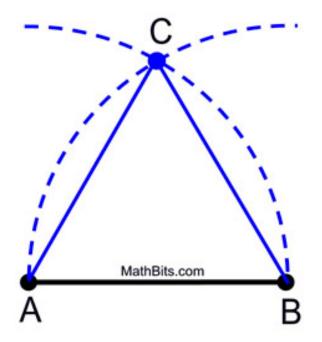
## Given: the length of one side of the triangle Construct: an equilateral triangle

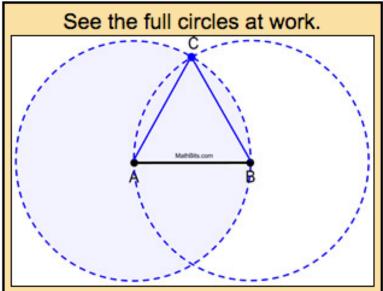
## STEPS:

- 1. Place your compass point on A and measure the distance to point B. Swing an arc of this size above (or below) the segment.
- 2. Without changing the span on the compass, place the compass point on B and swing the same arc, intersecting with the first arc.

В

3. Label the point of intersection as the third vertex of the equilateral triangle.





One more construction for today...

Given:  $\overline{AB}$  (a line segment) Construction: bisect  $\overline{AB}$ .

## STEPS:

- 1. Place your compass point on A and stretch the compass MORE THAN half way to point B (you may also stretch to point B).
- **2.** With this length, swing a large arc that will go above and below  $\overline{AB}$ .
- 3. Without changing the span on the compass, place the compass point on B and swing the arc again. The two arcs need to be extended sufficiently so they will intersect in two locations.
- **4.** Using your straightedge, connect the two points of intersection with a line or segment to locate point *C* which bisects the segment.

