

In-class activity 2

Assemble Your Group

1. Find your assigned group members, and sign in below.

Team member: _____

Team member: _____

Team member: _____

Team member: _____

Star Motions

2. Four different star maps (A)-(D) of Ursa Major ("Big Dipper") and Cassiopeia ("M or W") are shown on the next page, with respect to Polaris ("North Star"), *in no particular order*.
- (a) Use your starwheel to fill in the table below with the times (to the nearest hour, from 12:00 AM to 11:59 PM) that these constellations will appear with these orientations throughout August 20. Ignore daylight saving time. Assume you can see stars in daylight.

Star map	Date	Time (approx.)
(A)	August 20	
(B)	August 20	9:00 AM
(C)	August 20	
(D)	August 20	

- (b) In which order do these star maps (A)-(D) appear, on August 20?

_____ (B) _____
 (first) (last)

- (c) Do the constellations Ursa Major and Cassiopeia make continuous clockwise or counterclockwise circles around Polaris?
- (d) (Approximately) how many hours will it take in order for the constellations Ursa Major and Cassiopeia to complete one round trip around Polaris?

