

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 January 23. Assume you can see stars in daylight.

Star map	Date	Time (approx.)
(A)	January 23	
(B)	January 23	10:00 PM
(C)	January 23	
(D)	January 23	

- (b) In which order do these star maps (A)-(D) appear, on January 23?

_____ (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?

