

Name: _____

Per _____ Date _____

Astronomy Sun's Path Exit Ticket

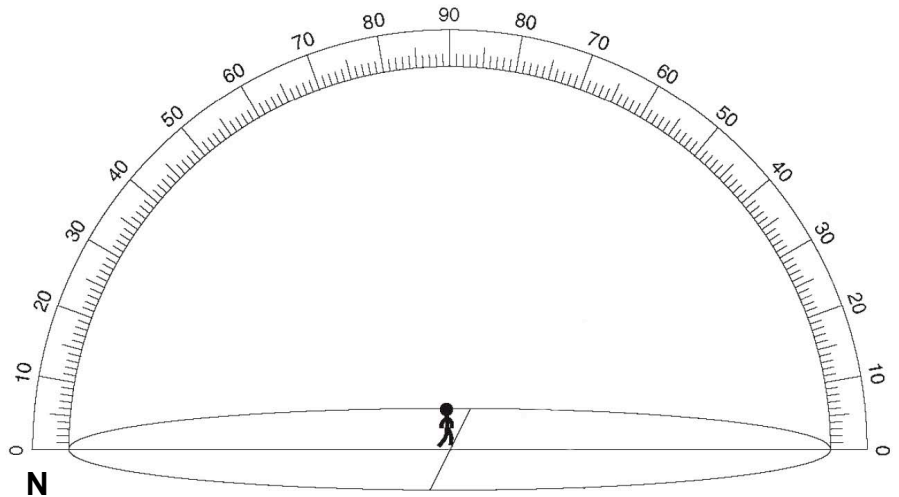
Each of the dark bulleted items is worth 1 point.

Your Task: For an observer located at **41° north latitude**, draw the apparent path of the sun for the solstice and equinox dates.

Your drawing (**in pencil**) should include:

(Hints: I suggest you draw them in this order, and you may wish to use a calculator to help you.)

- Polaris (labeled neatly)
- (8) compass directions: S, SE, E, NE, NW, W, SW, on the observer's horizon. (*I've drawn north for you...*)
- Sun's solar noon location for the (2) solstices and (2) equinox dates.
- Label these solar noon locations on the edge of the celestial sphere:
 - "EQ" (Equinox)
 - "JS" (June Solstice)
 - "DS" (December Solstice)
- Neatly drawn lines showing the sun's apparent movement above the observer's horizon
- Arrows showing the direction of the sun's motion along these apparent paths of the sun.



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