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Sun–Earth Motion Activity Worksheet

Data Table

Length of first shadow (cm)	
Length of last shadow (cm)	
Distance shadow moved in 30 minutes (cm)	

Post-Lab Questions

- 1. Using the compass directions drawn on the sheet of paper, what direction did the shadow move across the paper?
- 2. Compare the length of the first shadow distance measured versus the last shadow measured. Explain the difference (if any).
- 3. How far did the shadow move in 30 minutes?
- 4. What direction did the Sun move during the 30 minutes data was recorded?
- 5. Did the Sun move in the same direction the Earth rotates?
- 6. If the length of the wood dowel and pin used in this activity was lengthened, would this affect the distance the shadow moved across the paper in 30 minutes?

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