Res	nch for the Stars, Divisio	n B Name		
1999 Colorado Regional Exa			The Sun: Distance vs. Size	
Mate Anti-	terials required: Metric ru tp://solar.physics.montana Solar Classroom, 2. The teges from their current loc ekground information: The terent times during the year	ler plus four solar photos obtai .edu/YPOP> To locate the p .e Earth's Orbit, 3. Pictures of	ned from the YPOP web site: hotos, follow these links: 1. of the Sun. Opening the TIF he Yohkoh Spacecraft at four t of distance from the Sun up-	
D	Pate Photo was Taken	Season Photo was Taken	Photo Diameter in mm	
	01/23/92			
	04/22/92			
	07/21/92			
	10/19/92			
<ol> <li>2.</li> </ol>				
3.	Explain why the size of the Sun appears to vary throughout the year.			
4.	From the data you have gathered during this activity, what may be inferred about the shape of Earth's orbit about the Sun?  Explain.			
5.	During what season is the Sun closest to Earth?			
6.	In addition to the tilt [orientation] of Earth's axis, what motion is responsible for the			

varying seasonal temperatures?

taken across the very same location [we measured across the Sun's diameter] rather

than at different locations?

7. When measuring the diameter of the Sun, why is it crucial that all measurements be

This activity has been adapted from the YPOP lesson – "The Solar Classroom"