## Longitude Clues Worksheet 2014 Using Sunrise Clues to Estimate Longitude



Mystery Class #: _		<sup>L</sup> ongitud <sub>e</sub>
<ol> <li>Locate Greenwich, England is on the Greenwich, England is on the degrees longitude. On the rathe sun will rise in Greenwine Mark the location of Company with the time of sun prime meridian.</li> <li>Record sunrise time for the control of the co</li></ol>	ne prime meridian at 0 morning of March 20, 201 ch at 6:03 UT. Greenwich on the map. rise at Greenwich beside or the Mystery Class. r this Mystery Class on the map of the Mystery Class on the map.	the "Sunrise on the Equinox"
Place of Sunrise	Greenwich, England	Mystery Class #:
Time of Sunrise (UT)	6:03 March 20	
<b>3. Is the Mystery Class e</b> The Earth spins to the east east of Greenwich; a location Greenwich. Sunrise at this sunrise at Greenwich, so I location Greenwich.	. A location with sunrise ton with sunrise ton with sunrise <i>after</i> Green Mystery Class occurred _	ime <i>before</i> Greenwich is enwich is <i>west</i> of (before/after)
<b>4. How much time betwe</b> The length of time between Greenwich is hours and subtraction or addition equation.)	sunrise at this Mystery (d minutes. (Caution:	This may not be a simple
<b>5. For how many minute</b> The Earth will spin for Class location and the time answer in #4 above to min	minutes between the tim the sun rises at Greenwi	e sun rises at this Mystery
<b>6. How many degrees lo</b> The Earth spins 1 degree lo of this Mystery Class to be:	ngitude every 4 minutes.	I estimate the longitude