**Astronomy 101: Lunar Project Data Sheet** Name:

Use these data tables to keep track of the Moon every day. Use the Lunar Project Instructions for directions and record your data here, then submit this document on Monday of each week. This data will be used during your analysis in lab.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Week 1** | | | | | | | |
| **Day** | **Date** | **Time (am/pm)** | **Position** | | **Time since rise** | **Estimated rise time** | **Phase** |
| **N/E/S/W** | **Altitude** |
| Example | 8/19 | 11:00 pm | SE | 30° | 3 hours | 8:00 pm | full |
| Mon. | 9/9 |  |  |  |  |  |  |
| Tue. | 9/10 |  |  |  |  |  |  |
| Wed. | 9/11 |  |  |  |  |  |  |
| Thu. | 9/12 |  |  |  |  |  |  |
| Fri. | 9/13 |  |  |  |  |  |  |
| Sat. | 9/14 |  |  |  |  |  |  |
| Sun. | 9/15 |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Week 2** | | | | | | | |
| **Day** | **Date** | **Time (AM/PM)** | **Position** | | **Time since rise** | **Estimated rise time** | **Phase** |
| **N/E/S/W** | **Altitude** |
| Example | 8/19 | 11:00 pm | SE | 30° | 3 hours | 8:00 pm | full |
| Mon. | 9/16 |  |  |  |  |  |  |
| Tue. | 9/17 |  |  |  |  |  |  |
| Wed. | 9/18 |  |  |  |  |  |  |
| Thu. | 9/19 |  |  |  |  |  |  |
| Fri. | 9/20 |  |  |  |  |  |  |
| Sat. | 9/21 |  |  |  |  |  |  |
| Sun. | 9/22 |  |  |  |  |  |  |

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**When observing after midnight, the estimated rise time may be on the previous day.**

|  |  |  |  |  |  |  |  |
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| **Week 3** | | | | | | | |
| **Day** | **Date** | **Time (AM/PM)** | **Position** | | **Time since rise** | **Estimated rise time** | **Phase** |
| **N/E/S/W** | **Altitude** |
| Example | 8/26 | 8:00 am | SW | 70° | 9 hours | 11 pm (8/25) | Third quarter |
| Mon. | 9/23 |  |  |  |  |  |  |
| Tue. | 9/24 |  |  |  |  |  |  |
| Wed. | 9/25 |  |  |  |  |  |  |
| Thu. | 9/26 |  |  |  |  |  |  |
| Fri. | 9/27 |  |  |  |  |  |  |
| Sat. | 9/28 |  |  |  |  |  |  |
| Sun. | 9/29 |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Week 4** | | | | | | | |
| **Day** | **Date** | **Time (AM/PM)** | **Position** | | **Time since rise** | **Estimated rise time** | **Phase** |
| **N/E/S/W** | **Altitude** |
| Example | 8/19 | 11:00 pm | SE | 30° | 3 hours | 8:00 pm | full |
| Mon. | 9/30 |  |  |  |  |  |  |
| Tue. | 10/1 |  |  |  |  |  |  |
| Wed. | 10/2 |  |  |  |  |  |  |
| Thu. | 10/3 |  |  |  |  |  |  |
| Fri. | 10/4 |  |  |  |  |  |  |
| Sat. | 10/5 |  |  |  |  |  |  |
| Sun. | 10/6 |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Week 5** | | | | | | | |
| **Day** | **Date** | **Time (AM/PM)** | **Position** | | **Time since rise** | **Estimated rise time** | **Phase** |
| **N/E/S/W** | **Altitude** |
| Example | 8/19 | 11:00 pm | SE | 30° | 3 hours | 8:00 pm | full |
| Mon. | 10/7 |  |  |  |  |  |  |
| Tue. | 10/8 |  |  |  |  |  |  |
| Wed. | 10/9 |  |  |  |  |  |  |
| Thu. | 10/10 |  |  |  |  |  |  |
| Fri. | 10/11 |  |  |  |  |  |  |
| Sat. | 10/12 |  |  |  |  |  |  |
| Sun. | 10/13 |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Week 6** | | | | | | | |
| **Day** | **Date** | **Time (AM/PM)** | **Position** | | **Time since rise** | **Estimated rise time** | **Phase** |
| **N/E/S/W** | **Altitude** |
| Example | 8/19 | 11:00 pm | SE | 30° | 3 hours | 8:00 pm | full |
| Mon. | 10/14 |  |  |  |  |  |  |
| Tue. | 10/15 |  |  |  |  |  |  |
| Wed. | 10/16 |  |  |  |  |  |  |
| Thu. | 10/17 |  |  |  |  |  |  |
| Fri. | 10/18 |  |  |  |  |  |  |
| Sat. | 10/19 |  |  |  |  |  |  |
| Sun. | 10/20 |  |  |  |  |  |  |