







# MSIP Planning Guide – Distance Learning Teams

Block Schedule Version

|   |  |   |   |  |
|---|--|---|---|--|
| <p style="text-align: right;">Day 1</p> <p><b>Mars Image Analysis</b><br/>Engage (A-C)<br/>Explore (D, K-L)</p> | <p style="text-align: right;">Day 2</p> <p><b>Mars Image Analysis</b><br/>Explain (K-L)<br/>Elaborate (M-N)</p>  | <p style="text-align: right;">Day 3</p> <p><b>Mars Image Analysis</b><br/>Elaborate (P-R)</p>   | <p style="text-align: right;">Day 4</p> <p><b>Question Mars</b><br/>Engage (A-B)<br/>Explore (B)<br/>Explain (C)</p>  | <p style="text-align: right;">Day 5</p> <p><b>Question Mars</b><br/>Elaborate (D)<br/>Introduce JMARS<br/>Elaborate (E)</p>  |
| <p style="text-align: right;">Day 6</p> <p><b>Question Mars</b><br/>Evaluate (F)<br/>Flex time</p>              | <p style="text-align: right;">Day 7</p> <p><b>Proposal Development</b><br/>Class Background<br/>Research</p>  | <p style="text-align: right;">Day 8</p> <p><b>Proposal Development</b><br/>Team discusses data collection procedures for experimental design section (use JMARS) and makes initial decisions on types of graphs to use for results.</p> | <p style="text-align: right;">Day 9</p> <p><b>Proposal Development</b><br/>Create Proposal using smaller teams for specific topics within the Proposal.</p>  | <p style="text-align: right;">Day 10</p> <p><b>Proposal Development</b><br/>Combine information into one Proposal and check for clarity, completeness, and cohesiveness.</p> |

|  |   |   |   |  |
|--|---|---|---|--|
| <p style="text-align: right;">Day 11</p> <p><b>Proposal Presentation</b><br/>Distance Learning<br/>Teams present Proposal for feedback to an MSIP Coordinator and team review of Proposal feedback.</p>  | <p style="text-align: right;">Day 12</p>  <p><b>Proposal Feedback and Data Collection</b><br/>Team review and implementation of Proposal feedback and JMARS data collection to answer research question.</p>                                   | <p style="text-align: right;">Day 13</p>  <p><b>Data Collection</b><br/>JMARS data collection to answer research question.</p> <p><i>Request JMARS Targeting Link from MSIP Coordinator.</i></p> | <p style="text-align: right;">Day 14</p>  <p><b>Data Collection</b><br/>JMARS data collection to answer research question.</p> | <p style="text-align: right;">Day 15</p> <p><b>Targeting and Graphing the Data</b><br/>Use targeting link sent by MSIP coordinator to select a spot on Mars to photograph with the THEMIS camera. Group discussion of types of graphs needed to answer the question.</p>               |
| <p style="text-align: right;">Day 16</p>  <p><b>Graphing the Data and Drawing Conclusions</b><br/>Graph the data using JMARS data collected and the graphs decided upon by the team. Distribute graphs using differentiation. Students make observations of data and interpret meaning.</p> | <p style="text-align: right;">Day 17</p> <p><b>Drawing Conclusions and Developing the Final Presentation or Final Written Report</b><br/>Student vote on best explanation for each graph to be used in Final Presentation or Final Written Report. Create Final Presentation/Report with smaller teams for specific topics.</p> | <p style="text-align: right;">Day 18</p> <p><b>Developing the Final Presentation or Final Written Report</b><br/>Create Final Presentation or Final Written Report with smaller teams for specific topics. Combine info and check for clarity, completeness, and cohesiveness.</p>  | <p style="text-align: right;">Day 19</p> <p><b>Final Presentation/Written Report</b><br/>Flex day</p>   | <p style="text-align: right;">Day 20 (Option 1)</p> <p><b>Final Presentation</b><br/>Distance Learning<br/>Team presents Final Presentation to a Mars Scientist for Peer Review. At completion, MSIP Coordinator will email poster with THEMIS image for distribution to students.</p> |

Day 20 (Option 2)

**Final Written Report Submission**

Create Final Written Report using smaller teams for specific topics within the Final Report Requirements. Send Final Report to MSIP Coordinator and he/she will then email poster with THEMIS image for distribution to students.

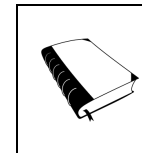
*\*Note: This is the only option that allows for student publication to the Mars Education website. Reports will be evaluated and those designated with a "Best of" will be published.*



Indicates a possible computer lab day based on teacher instructional strategies and school availability.



Anticipated computer lab days.



Could be assigned as homework.