

# MSIP Planning Guide – Independent Research

## Traditional Schedule Version

| Day 1  | Day 2  | Day 3  | Day 4   | Day 5   |
|--|--|--|---|---|
| <b>Mars Image Analysis</b><br>Engage (A-C)<br>Explore (D)  | <b>Mars Image Analysis</b><br>Explore (K-L)<br>Explain (K-L)   | <b>Mars Image Analysis</b><br>Elaborate (M-N)  | <b>Mars Image Analysis</b><br>Elaborate (P-R)   | <b>Question Mars</b><br>Engage (A-B)<br>Explore (B)<br>Explain (C)  |
| Day 6<br><b>Question Mars</b><br>Elaborate (D:<br>Introduce JMARS)   | Day 7<br><b>Question Mars</b><br>Elaborate (E)<br>Evaluate (F)   | Day 8<br><b>Question Mars</b><br>Flex day  | Day 9<br><b>Data Collection</b> <br>JMARS data collection<br>to answer research<br>question. | Day 10<br><b>Data Collection</b> <br>JMARS data collection<br>to answer research<br>question.  |
| Day 11<br><b>Data Collection</b> <br>JMARS data collection<br>to answer research<br>question. | Day 12<br><b>Data Collection</b> <br>JMARS data collection<br>to answer research<br>question. | Day 13<br><b>Graphing the Data</b><br>Group discussion of<br>the types of graphs<br>needed to answer the<br>question and other<br>graphs that can be<br>used based on data<br>collected. | Day 14<br><b>Graphing the Data</b><br>Graph the data using<br>the JMARS data<br>collected and the<br>types of graphs<br>decided upon by the<br>team.                            | Day 15<br><b>Drawing<br/> Conclusions</b><br>Distribute graphs<br>using differentiation.<br>Make observations of<br>the data and interpret<br>meaning. Collect and<br>organize explanations<br>based on type of<br>graph. |

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|---|--|---|--|
| Day 16  | Day 17   | Day 18  | Day 19   |
| <p><b>Drawing Conclusions</b><br/>Student vote on the best explanation for each graph to be used in Final Written Report.</p> | <p><b>Final Written Report Development</b> <br/>Create Final Written Report using smaller teams for specific topics within the Final Report Requirements.</p> | <p><b>Final Written Report Development</b> <br/>Create Final Written Report using smaller teams for specific topics within the Final Presentation.</p> | <p><b>Final Written Report Submission</b><br/>Combine information to create Final Written Report. Send Final Report to MSIP Coordinator along with data requested by the MSIP Coordinator regarding MSIP team.</p> |

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

 Anticipated computer lab days.

 Could be assigned as homework.