

## PRESENTATION OUTLINE

INTRODUCTION	BACKGROUND	METHODS	DATA	DISCUSSION	CONCLUSIONS
<p>(An introduction to your project and its purpose)</p> <p><i>Purpose: Introduce your project and your science question.</i></p> <ol style="list-style-type: none"> <li>1. What is your science question?</li> <li>2. Why is it important?</li> <li>3. Why is it interesting?</li> <li>4. List all hypotheses you had for your science question and explain why you think this to be true?</li> </ol>	<p>(What you already know?)</p> <p><i>Purpose: Provide background information about your specific features.</i></p> <ol style="list-style-type: none"> <li>1. What specific definitions and knowledge you have about the features you are studying on Mars</li> <li>2. Show selected images, sketches, or pictures that illustrate the features you are studying (a “control” image).</li> <li>3. How are these features formed or thought to form on Earth and/or Mars? Show how your features are formed (the geologic process) in a sketch or image.</li> <li>4. What hypotheses do other scientists have about these geologic features and how they form on Mars (what do they think or assume)?</li> </ol>	<p>(A step-by-step process of what you did to collect your data)</p> <p><i>Purpose: For reliability and reproducibility.</i></p> <ol style="list-style-type: none"> <li>1. What tools did you use to answer your scientific question?</li> <li>2. What steps did you use to access the images and to collect your data such as measurements, observations, and/or locations?</li> <li>3. What controls were put into place to ensure everyone collected data the same way and answered your question?</li> </ol> <p><b>**Note: consider the audience. Is this someone who is extremely familiar with the materials you are using? They may need fewer details than the average person who has never completed a project like this before.</b></p>	<p>(What Information did you collect?)</p> <p><i>Purpose: To list and display only the data you collected, no interpretations.</i></p> <ol style="list-style-type: none"> <li>1. How many THEMIS images did you collect?</li> <li>2. What specific information did you collect from each THEMIS image you observed?</li> <li>3. Some good examples of the features you observed and/or measured.</li> <li>4. Display the data               <ol style="list-style-type: none"> <li>a. In tables.</li> <li>b. In graphs.</li> <li>c. On maps.</li> </ol> </li> </ol>	<p>(What can you say about your data?)</p> <p><i>Purpose: To discuss the meaning of your data as it relates to your science question. This area can be combined with the data section.</i></p> <ol style="list-style-type: none"> <li>1. <u>Reshow</u> and <u>discuss</u> the meaning from each:               <ol style="list-style-type: none"> <li>a. Data table</li> <li>b. Data graph</li> <li>c. Data map</li> <li>d. Selected images</li> </ol> <p>Be sure to explain what the data means. What do your results tell us about Mars as a planet?</p> </li> <li>2. Discuss the potential errors with the data you collected?               <ol style="list-style-type: none"> <li>a. Inaccuracies</li> <li>b. Misinterpretations</li> <li>c. Biases</li> </ol> </li> </ol>	<p>(What are your conclusions?)</p> <p><i>Purpose: To summarize and conclude your science project.</i></p> <ol style="list-style-type: none"> <li>1. Restate and answer your science question based on your interpretations from your discussion section.</li> <li>2. Restate and support or refute any hypotheses based on your interpretations from your discussion section.</li> <li>3. What future work could be done to expand your research project?</li> <li>4. Who can you acknowledge for helping you complete your science project?</li> </ol>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <ul style="list-style-type: none"> <li>▪ Always relate to your question</li> <li>▪ Use specific and clear words</li> <li>▪ Avoid vagaries</li> <li>▪ Bullet points (main ideas on slide)</li> <li>▪ Details in speaker notes</li> </ul> </div> <p><b>REFERENCES</b> List what <u>books</u>, <u>websites</u>, <u>people</u>, and <u>equipment</u> you used for your research using APA or MLA style. Use an online citation generator to ensure the reference is correctly formatted. Include credits for any images that have been used to be placed in small print below the image.</p>					