

Names: _____

Astrophotography Final Project

	4	3	2	1
Background Part 1: Organization of the Universe	<p><i>You have met the expectations for proficiency, plus:</i></p> <p><i>Your use of scientific vocabulary and the clarity of your writing show mastery of the concept.</i></p> <p><i>You can make connections between new concepts and past learning.</i></p>	<p><i>You show a proficient understanding of the contents of our universe, and how we organize and classify them.</i></p> <p><i>You can clearly describe the different types of objects found in our universe.</i></p>	<p><i>You show a developing understanding of the contents of our universe, and how we organize and classify them.</i></p> <p><i>Your descriptions lack depth, or contain misunderstandings.</i></p>	<p><i>You do not yet show that you have understood or can list the contents of our universe, and how we organize and classify them.</i></p> <p><i>You may make reference to key topics, but your work does not show evidence of understanding these topics.</i></p>
Background Parts 2 & 3: Digital Imaging and Communication Systems	<p><i>You have met the expectations for proficiency, plus:</i></p> <p><i>Your use of scientific vocabulary and the clarity of your writing show mastery of the concept.</i></p> <p><i>You can make strong connections between the remote sensing simulation task, and the astrophotography work you did in your project.</i></p> <p><i>You apply your understanding of pixelization and binary code to a description of how telescopes encode, store, and transmit information.</i></p>	<p><i>You show a proficient understanding of how binary code is used to transmit information between digital devices.</i></p>	<p><i>You show a developing understanding of how binary code is used to transmit information between digital devices.</i></p> <p><i>Your explanations lack depth, or contain minor misunderstandings.</i></p>	<p><i>You do not yet show that you have understood how binary code is used to transmit information between digital devices</i></p> <p><i>You may make reference to the important concepts, but your work does not show evidence of understanding these concepts.</i></p>
Conclusion	<p><i>You have met the expectations for proficiency, plus:</i></p> <p><i>Your use of scientific vocabulary and the clarity of your writing show deep mastery of the themes and concepts we learned in this unit.</i></p> <p><i>When drawing on examples of work and learning from science class, you can thoughtfully and clearly explain how the examples you give support your larger reflections.</i></p>	<p><i>You can make connections between specific content and larger themes from the unit</i></p> <p><i>You use specific examples of your work and learning in science class to support your reflections about the big picture themes of 8th grade science.</i></p>	<p><i>You begin to make connections between specific content and larger themes from the unit.</i></p> <p><i>Your discussion of the big picture themes in science is vague and lacks specific details and examples.</i></p>	<p><i>You do not yet show that you can make connections between specific content and larger themes from the unit.</i></p>