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| **Bloom’s Taxonomy Categories** | **Measureable Unit/Subunit Learner Outcomes** |
| Knowledge | **Social Studies*** Students will be able to obtain information from oral, visual, and print sources about space.
* Students will be able to describe and communicate information orally and in writing.

**Science*** Students will be able to recognize and observe the stars.
* Students will be able to describe that the stars appear to move across the sky.
* Students will be able to describe that the moon appears to move across the sky.
* Students will be able to describe that the sun appears to move across the sky.
* Students will be able to observe and describe how the moon appears a little different every day but looks nearly the same again about every four weeks.

**Language Arts*** Students will be able to identify important information about planets and write brief notes about the information.
* Students will be able to know and use proper writing conventions (print legibly, space letters, words, and sentences appropriately).
* Students will be able to arrange events from informational text about the moon’s phases in sequential order.
* Students will be able to identify information in diagrams, charts, graphs, and maps.
* Students will be able to establish a purpose for reading.

**Mathematics*** Students will be able to identify and select appropriate units of measure for traveling into space.
* Students will be able to extend simple number patterns.
* Students will be able to identify true and untrue statements about a given set of data.
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| Comprehension | **Social Studies*** Students will be able to predict the next event in a sequence by identifying the order of the phases of the moon.

**Science*** Students will be able to explain that animals, people, and plants all have certain needs that can only be found on Earth.
* Students will be able to identify and give an example of the planets and their characteristics.

**Language Arts*** Students will be able to comprehend and follow two and three step directions.
* Students will be able to comprehend information found in fiction and nonfiction texts.

**Mathematics*** Students will be able to model, represent, and explain multiplication as repeated addition, rectangular arrays, and skip counting.
* Students will be able to model, represent, and explain division as sharing equally and repeated subtraction.
* Students will be able to generalize and predict missing elements in a pattern.
* Students will be able to predict information for a chart or graph.
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| Application | **Science*** Students will be able to apply knowledge of the apparent movement of the sun, moon, and stars to complete an experiment.
* Students will be able to demonstrate appropriate safety procedures when completing scientific investigations.
* Students will be able to demonstrate use of appropriate tools and simple equipment/instruments to safely gather scientific data during experiments.
* Students will discover that in science it is helpful to work with a team and share findings with others.

**Language Arts*** Students will be able to demonstrate active listening strategies during presentations.
* Students will be able to prepare alien letters applying and using the 5 parts of a letter properly.
* Students will be able to utilize a table of contents, glossary, captions, and illustrations to identify information and comprehend informational text.
* Students will be able to use knowledge of word order and in-sentence context clues to support word identification and to define unknown words while reading.
* Students will be able to predict content, events, and outcomes from illustrations and prior experiences.
* Students will be able to use organizational strategies to plan writing of space reports.
* Students will be able to utilize technology to compose space reports and search for information.
* Students will be able to apply tools (rubric) to judge the quality of their own writing and peer’s writing samples.

**Mathematics*** Students will be able to manipulate moon and planet objects for multiplication problems.
* Students will be able to manipulate cookies for division problems.
* Students will be able to manipulate moon and planet objects to create patterns.
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| Analysis | **Social Studies*** Students will be able to measure calendar time by diagramming one full month of the moon’s phases.

**Science*** Students will be able to differentiate between the phases of the moon.
* Students will be able to compare and contrast the planets and their characteristics.

**Language Arts*** Students will be able to analyze and categorize information into graphic organizers.
* Students will be able to illustrate writing samples from space reports for display and sharing with others.

**Mathematics*** Students will be able to read, interpret, and make comparisons and predictions from data represented in charts and graphs.
* Students will be able to write a few sentences to describe and compare categories of data represented in charts or graphs.
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| Synthesis | **Science*** Students will be able to explain the fact that there are more stars in the sky than anyone can easily count.
* Students will be able to explore flashlights and shadows for an experiment and reconstruct the movement of the Earth, sun, and moon.

**Language Arts*** Students will be able to compose and deliver informational presentations.
* Students will be able to create questions for investigations, assigned topic, or personal areas of interest (choosing a specific planet to research more about).
* Students will be able to tell and report important findings to others during planet presentations.
* Students will be able to organize information into graphic organizers.
* Students will be able to generate writing ideas through discussions with others.
* Students will be able to develop a purpose and audience for writing and sharing space reports.
* Students will be able to revise and rewrite space reports.

**Mathematics*** Students will be able to pose questions, use observation, interviews, and surveys to collect data, and organize information into charts and graphs.’
* Students will be able to collect data and compose a graph.
* Students will be able to write statements about data as a whole in charts and graphs.
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| Evaluation | **Science*** Students will be able to describe why they think the moon has phases each month.
* Students will be able to defend and support, in writing, why people have only been found to live on Earth and not any other planets.

**Language Arts*** Students will be able to support predictions with examples from the text or background knowledge.
* Students will be able to criticize and defend their own conclusions from research and background knowledge.

**Mathematics*** Students will be able to support decisions of appropriate units of measurement for traveling into space.
* Students will be able to make concluding statements about survey data.
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