| | Peer to Peer Science | | | | | | | |
|--|----------------------|--|---|--|--|--|--|---|
| Estimated Time Frame for sections | Big Ideas | Essential Question | Concept (Know) Main idea | Competency (Do) objectives | Suggested Resources | Vocabulary | PA Content / Keystone Standard | Suggested Lessons & Activities |
| 30 days | Solar system | What give us the heat and light? What are the planets located? | Describe relative size, distance, or motion. Observe and describe the change to objects caused by heat, cold, or light. | Place the Sun in the center of the solar system. The Sun gives us heat and light. How big is the Sun compared to the planets? | Online videos Book Magic school bus | Sun Moon Mercury Venus Earth Mars Jupiter Saturn Uranus Neptune | S4.A.1.3.2 S4.A.1.3.3 S4.A.2.1.1 | Created a book on the solar system. |
| 30 days | Plants / nutrition | What makes a plant grow? Is the plant living or nonliving? What things do we need that are not alive that are necessary for a plant to grow? | Know that plants need water to survive. Know that plants need soil to survive. Explain a relationship between the living and nonliving components in a system (e.g., food web, terrarium, bicycle). | Water the plants. Transplant the plants. Understand that the plants need sunlight to survive. What does living mean? What are nonliving elements that a plant needs? | Green house videos | Roots Soil Water Leaves Nutrition Flower Fruit vegetables | S4.A.2.1.3 S4.A.3.1.2 S4.A.3.1.3 S4.A.3.3.1 S4.B.1.1.1 S4.B.1.1.2 S4.B.1.1.3 S4.B.1.1.3 S4.B.1.1.4 S4.B.2.1.2 S4.B.3.1.1 S4.B.3.1.2 | Plant vegetables Track growth of plants |

| How do the | ļ |
|------------------------------|---|
| Categorize the plants grow? | |
| parts of an ie if there is a | |
| ecosystem as flower what | |
| either living or comes next. | |
| non-living and | |
| describe their What function | ļ |
| roles in the do all of the | ļ |
| system. parts of a plant | |
| do? | |
| Identify and | ļ |
| describe Where do the | |
| observable seeds come | |
| patterns (e.g., from? | |
| growth | ļ |
| patterns in Why are some | |
| plants, plants leaves | |
| weather, water larger than | |
| cycle). others? | |
| | |
| Describe basic | |
| needs of plants | ļ |
| and animals | ļ |
| (e.g., air, | ļ |
| water, food, | ļ |
| shelter). | |
| sherer). | |
| Identify the | |
| functions of | |
| plant or animal | ļ |
| structures. | ļ |
| Structures. | ļ |
| Describe life | |
| | ļ |
| cycles of plants | ļ |
| and | ļ |
| developmental | |

| stages of |
|------------------|
| animals |
| (vertebrates |
| such as birds |
| and mammals). |
| and manimas). |
| |
| Describe basic |
| needs of plants |
| and animals |
| (e.g., air, |
| water, food). |
| |
| Describe how |
| different parts |
| of a living |
| thing work |
| thing work |
| together to |
| provide what |
| the organism |
| needs (e.g., |
| parts of plants: |
| roots, stems, |
| leaves). |
| |
| Explain how |
| specific |
| adaptations can |
| |
| help a living |
| organism |
| survive (e.g., |
| protective |
| coloration, |
| mimicry, leaf |
| sizes and |
| shapes, ability |
| to catch or |
| to catch of |

| | | notoin xxxxtan) | | | | | |
|---------|----------------|--|------------------------------------|--------------------|--|--|--|
| | | retain water). | | | | | |
| | | Distinguish between living and non-living things. | | | | | |
| | | Describe interactions between living and nonliving components (e.g. plants – water, soil, sunlight, carbon dioxide, temperature; animals – food, water, shelter, oxygen, temperature) of a local ecosystem. Identify foods from plants and animals | | | | | |
| 30 days | Bodies systems | Identify life processes of living things (e.g., growth, | Name one of the body systems. | Green house videos | Lungs Trachea Tongue Teeth | S4.A.1.3.5 S4.B.1.1.1 S4.B.1.1.2 S4.B.1.1.3 | Created a life size human body with all of the |
| | | digestion, respiration). | What does the digestive system do? | | Diaphragm Esophagus Stomach Small | S4.B.1.1.4 | system working together. |
| | | similar | What does the | | intestine | | |

| for ations of | oinaviatamy | Laura | |
|------------------|-----------------|-------------|--|
| functions of | circulatory | Large | |
| external | system do? | intestine | |
| characteristics | | Colon | |
| of organisms | What does the | Pancreas | |
| (e.g., | nervous system | Skull | |
| anatomical | do? | Bones | |
| characteristics: | | Heart | |
| appendages, | What does the | Arties | |
| type of | skeletal system | Veins | |
| covering, body | do? | Capillaries | |
| segments). | | Brain | |
| , | What does the | Nerves | |
| Describe basic | muscular | Spinal cord | |
| needs of plants | system do? | Kidneys | |
| and animals | system do. | Bladder | |
| (e.g., air, | What does the | Urethra | |
| water, food). | excretory | Ureter | |
| water, 100d). | system do? | Office | |
| Describe how | system do: | | |
| | W/hat dagatha | | |
| different parts | What does the | | |
| of a living | lungs system | | |
| thing work | do? | | |
| together to | | | |
| provide what | | | |
| the organism | | | |
| needs (e.g., | | | |
| parts of plants: | | | |
| roots, stems, | | | |
| leaves). | | | |