

Art

- Students learned about design and aesthetics while creating the layout and appearance of the garden beds.
- They practiced creativity and design principles through the use of color, shape, and texture in the garden bed construction.

Math

- Students utilized measurement and geometry skills to calculate the size and dimensions of the garden beds, as well as the placement of plants within the layers.
- They applied multiplication and addition to determine the total soil needed for the different layers.

Science

- They learned about plant biology and ecology, understanding the needs of different plants and how they can thrive in a multi-layer garden bed system.
- They explored concepts of photosynthesis, water cycles, and nutrient cycles within the garden beds.

Physical Education

- Students engaged in physical activity through digging, lifting, and moving materials to construct the garden beds, promoting physical fitness and strength.

After completing the multi-layer garden beds project, students can engage in continued development by experimenting with different plant species, observing how they interact and grow in the constructed garden beds. They can also research and implement eco-friendly irrigation systems and study the impact of various multi-layered gardening techniques on local biodiversity and soil health.

Book Recommendations

- [The Secret Garden](#) by Frances Hodgson Burnett: This classic novel explores the magic of gardens and the transformative power of nature.
- [Gardening Lab for Kids: 52 Fun Experiments to Learn, Grow, Harvest, Make, Play, and Enjoy Your Garden](#) by Renata Fossen Brown: A hands-on book with creative garden-related activities for kids.
- [In the Garden with Dr. Carver](#) by Susan Grigsby: A historical fiction book about the botanist George Washington Carver and his love for gardening and nature.

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