

## Core Skills Analysis

### Science

- The student learned about the habitat requirements for different animals while designing the enclosure.
- They gained knowledge about the importance of environmental enrichment and natural elements within the enclosure to promote animal well-being.
- Understanding the concept of adaptation and how to incorporate features in the enclosure that mimic the animal's natural habitat.
- Exploring the concept of food chain and designing a balanced ecosystem within the enclosure.

### Mathematics

- Calculating the dimensions of the enclosure based on the space available and the needs of the animal.
- Applying measurement skills to ensure the appropriate size of different sections within the enclosure.
- Budgeting and costing for materials needed to build the enclosure.
- Estimating the quantity of food required for the animals based on their size and diet.

### Art

- Creatively designing the layout of the enclosure to provide both aesthetic appeal and functionality.
- Using colors and textures to mimic the natural environment of the animal within the enclosure.
- Incorporating drawings or symbols to represent different elements or zones within the enclosure.
- Exploring different artistic styles to showcase the diversity of habitats for various animals.

### Tips

Encourage the student to research more about specific animal behaviors and needs to create more specialized and detailed enclosures. They can also experiment with unconventional materials or designs to stimulate further creativity. Encouraging them to document their design process through sketches or journals can enhance their critical thinking and problem-solving skills in future projects.

### Book Recommendations

- [Zoo Architect](#) by Strawbeary Shortcake: Follow the journey of a young architect designing innovative animal enclosures in a zoo.
- [Animal Habitats Coloring Book](#) by Wildlife Illustrator: Explore and color different animal habitats while learning interesting facts about each ecosystem.
- [Build Your Zoo: A Hands-On Guide](#) by Playful Planner: A hands-on book that teaches children how to plan and build their own zoo with animal enclosures.