

## Core Skills Analysis

### Digital and Design Technology

- The student gained practical knowledge of aerodynamics and how it applies to helicopter design.
- Developed understanding of the engineering behind rotor blades and how they generate lift for the helicopter.
- Learned about the importance of balance and stability in designing a functioning helicopter model.
- Enhanced problem-solving skills by troubleshooting issues with the helicopter's propulsion system.

### Tips

For continued development after the helicopter activity, students can explore advanced helicopter designs and mechanisms. Encourage them to research real-life helicopter engineering and construction processes to deepen their understanding. Additionally, students can experiment with different materials to see how they affect the helicopter's performance and stability. Encouraging teamwork on larger-scale helicopter projects can also foster collaboration and communication skills.

### Book Recommendations

- [How Helicopters Work](#) by Mary Ann Hoffman: An informative book explaining the mechanics and engineering behind helicopters in an engaging manner suitable for young readers.
- [DIY Helicopter Projects for Kids](#) by Jacob Smith: A hands-on guide with step-by-step instructions for building various helicopter models using easy-to-find materials.
- [Engineering Marvels: Helicopters](#) by Kelly Stevens: Explores the history, technology, and future of helicopters with fascinating facts and illustrations, perfect for curious young minds.