Core Skills Analysis

Building model car engine

- The student learned about basic engineering concepts like assembling different parts to create a functional engine model.
- Through this activity, the student gained understanding of mechanical principles such as how pistons and gears work together in a car engine.
- The hands-on experience helped the student grasp the importance of following instructions carefully for successful completion of a project.
- By building a model car engine, the student also developed problem-solving skills when faced with challenges or difficulties during the assembly process.

Tips

For further exploration and improvement, the student could delve into more complex engine designs, experiment with different types of fuels for model engines, explore the history of car engines, or even learn about the environmental impact of traditional car engines versus alternative fuel sources.

Book Recommendations

- The Everything Kids' Science Experiments Book by Tom Robinson: Packed with interactive experiments that make learning fun and engaging for young scientists.
- The Usborne Big Book of Engines by Catherine D. Hughes: A highly visual book that explores the workings of different engines, including car engines, in an accessible way for kids.
- The LEGO Power Functions Idea Book, Vol. 1: Machines and Mechanisms by Yoshihito Isogawa: Inspiring book that combines building with LEGO bricks and learning about engineering principles related to machines and mechanisms.