- Heat transfer: Understanding how heat is transferred from the sun to the interior of the car and into the cookie dough.
- Solar energy: Recognizing that solar energy can be harnessed and used for practical purposes, like baking cookies.
- Temperature: Learning about the relationship between temperature and the cooking process of the cookies.
- Conduction: Exploring how heat is transferred from the hot car and into the cookie dough through conduction.
- Thermal expansion: Observing the expansion of the cookie dough as it bakes due to the heat energy absorbed.
- Heat distribution: Noticing how the cookies may bake unevenly based on their position in the car and understanding the concept of heat distribution.

Tips for continued development:

1. Encourage the child to research and understand more about solar energy and its various applications.

2. Have them experiment with baking different types of cookies in the car, varying the time and temperature to explore how it affects the final product.

3. Discuss with the child how temperature affects other cooking methods as well, such as baking in an oven or grilling on a stovetop.

4. Explore the concept of heat transfer further by experimenting with other materials and see how they react to heat, such as melting chocolate or melting ice cubes.