Design, Create and Move a Toy Car

The purpose

What is the purpose of your experiment? It is always important to determine what you want to find out or observe when conducting an experiment, and to do this, you must understand the problem. For this experiment, you will be designing a toy car, and if possible, building it, to explore how you can use contact and non-contact forces to move it. Your question could be: How can various contact and non-contact forces be used to move a toy car?

- I can understand the problem by:
- thinking about what I already know
- thinking about what questions I have
- focusing my experiment to one idea
- explaining what I am looking to find out

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Prediction

A prediction is a possible answer to a question, or what you think will happen based on what you already know. Now that you know what we are trying to learn more about, create a prediction about which contact and non-contact forces you think you will use to move a toy car. Which will work best? Why do you think that?

I can make a specific prediction by:

- thinking about what I already know
- explaining what I think will happen

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Materials	List any materials that you think you might need to complete your experiment. For this experiment, consider: What materials will I need to build my toy car? What materials will I need to test contact forces that will move the car? What materials will I need to test non-contact forces that will move the car?

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Procedure	In this step you will design the procedure for your experiment in step-by-step instructions. Be sure to include: How to build the toy car (include materials you may need, and if possible, an image or detailed audio recording of how to assemble the car) How to test the car (what will you use to move the car, consider contact and non-contact forces) What steps will someone take to test out this experiment and record their observations?

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Observations *Remember observations can be recorded with pictures, numbers and/or words!	
Conclusions	