



Name(s):

Date and subject:

Main Activity: Go-Cart

Student Worksheet



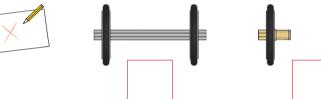
1. First, build Go-Cart Model B5 and steer it around.

Follow Building Instructions B, pages 22 to 30, steps 1 to 13.



2. Mark which type of axle is used for the front set of wheels.





- 3. Then look carefully at the pictures of the models and compare Go-Cart Model B5 to Go-Cart Model B6.
 - · Circle what is different.







· What do you notice? Explain how the models are different.



4. Next, look carefully at the pictures of the models and make a prediction.



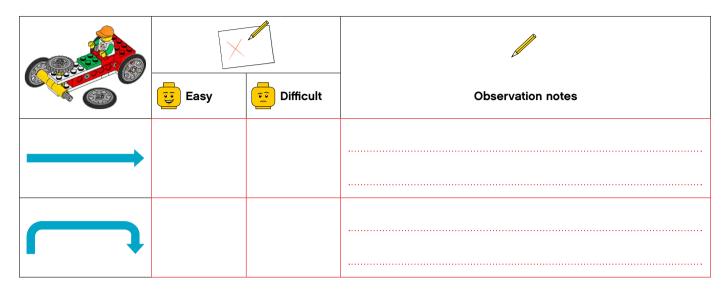
B5

B6

If I compare model B5 to model B6, then I think that Go-Cart Model (B5 / B6) will be the easiest to steer.

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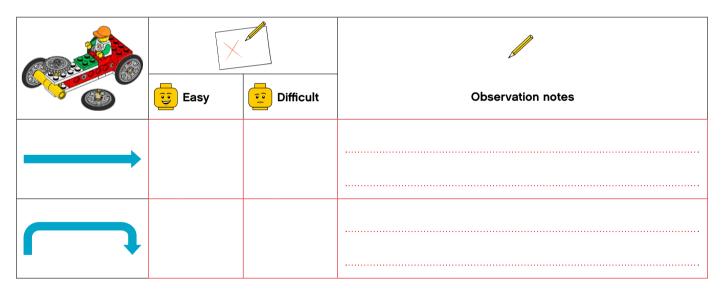
5. Test Go-Cart Model B5.



6. Build Go-Cart Model B6 and steer it around. Follow Building Instructions B, pages 32 to 40, steps 1 to 13.



7. Test Go-Cart Model B6.



8. Finally, draw a conclusion and check your prediction.

My tests show that Go-Cart (B5 / B6) is easier to steer.







My prediction was (right / wrong).



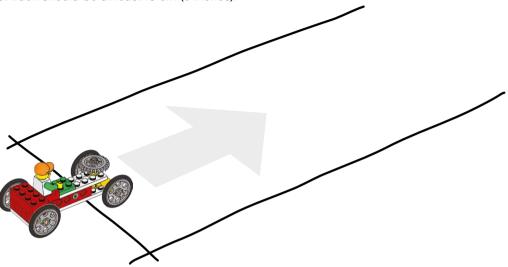




Student Worksheet Main Activity: Go-Cart

Build a test track and explore the movements of the go-carts. Your test track must have turns and a straight section, and part of the track must also be built in a zigzag pattern.

The width of the test track should be at least 13 cm (6 inches).



Rebuild the go-cart, for example by exploring the effects of using separate axles for the back wheels, or by using different wheels.

What do you notice? Explain how the axles are different. Record observations.

B	
•••	

Draw some everyday machines and mechanisms where wheels and axles are used.

