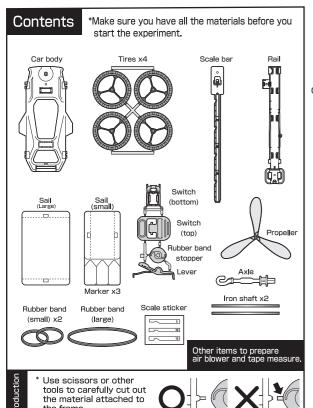
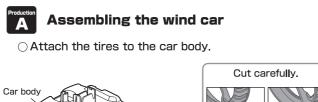
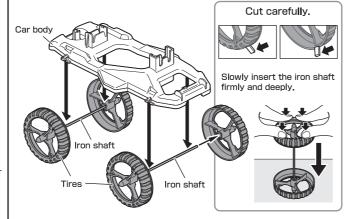
SCIENCE TEACHING MATERIALS וַקּּצִייַאַדּוּ

Wind and Rubber Mechanisms [Type DXII]

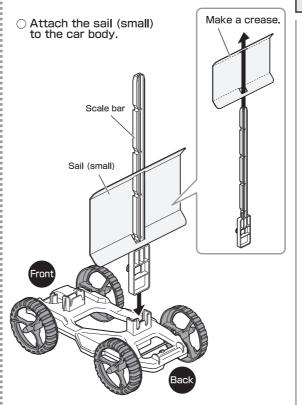
Name

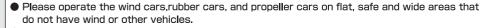








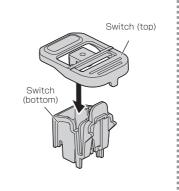


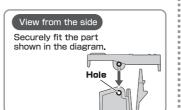


- Do not overstretch the rubber band, or it may be severed.
- Do not aim or flick the rubber band at anyone.
- Please be careful when handling the items, as they may cause injury.
- Please listen carefully to the teacher's advice before using the tools.
- Before starting, be sure to read the instructions carefully.

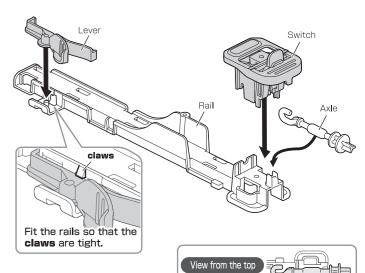


Insert the switch (top) into the hole in the switch (bottom).





O Attach the axle, switch, and lever to the rail.



wind

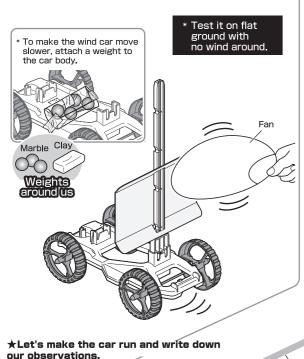
the

ð

The mechanism

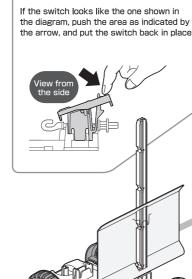
Let's make the wind car move.

• Use a fan to blow air into the sail and move the wind car.



Wind strength and movement

• Hook the switch to the car body and blow air using the air blower.

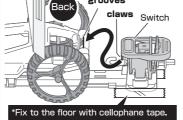


Draw a starting line with tape

(50cm from the air blower), and align the car's front.

Tighten the claws of the switch firmly

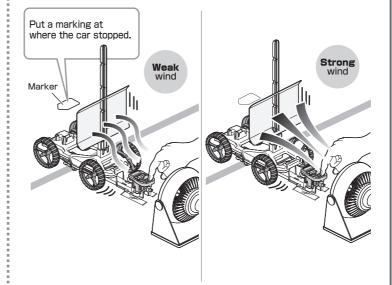
into the groove at the rear of the vehicle.



The claws come off when you press it, and the car starts moving.

Air blower

• Move the wind car and see if there is a difference in the distance it travels when the wind is weak and when it is strong.

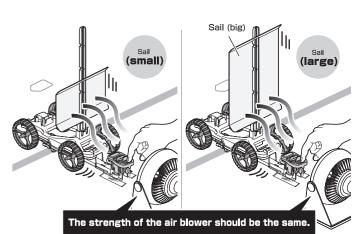


		When the wind is weak		When the wind is strong	
Distance	1 st time	m	cm	m	cm
	2 nd time	m	cm	m	cm
	3 rd time	m	cm	m	cm
Sur	mmary				

Sail size and movement

• Let's find out if there is a difference in the car's speed depending on the size of the sail.

Place as shown in the diagram.

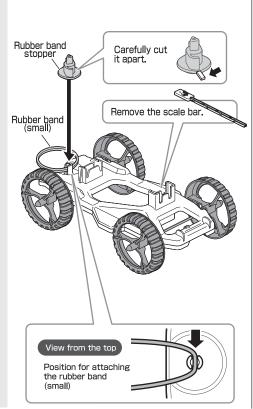


		Sail (small)		Sail (large)	
Distance	1 st time	m	cm	m	cm
	2 nd time	m	cm	m	cm
	3 rd time	m	cm	m	cm
Summary					

Rubber mechanism

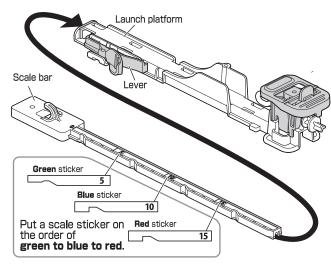
Assembling a rubber car

 Attach one rubber band (small) to the car body and fasten it with a rubber band stopper.



Attaching the scale bar to the launch platform

 \bigcirc While checking the lever lock, insert the scale bar into the launching platform.



Release

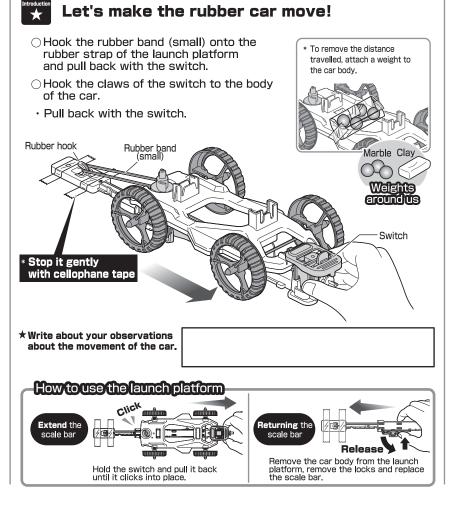
Press the position shown in

Release the rubber band stopper.

Be careful not

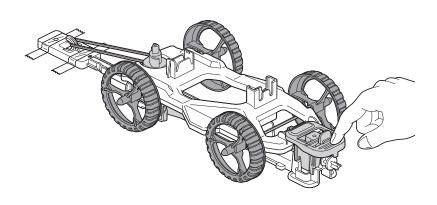
Click

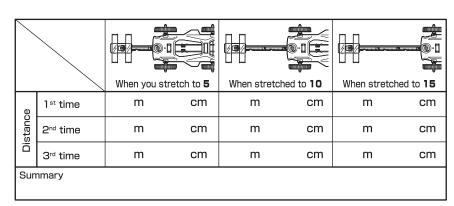
the diagram to release the lock.



Stretching the rubber band and movement

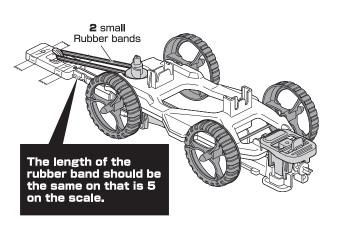
 Find out if there is a difference in the distance travelled depending on how long you have stretched the rubber band.



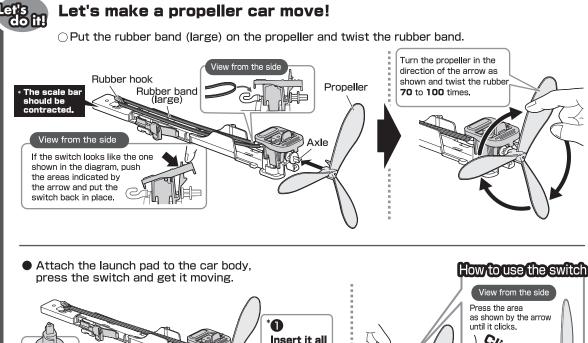


Number of rubber bands and movement

• Compare the difference in the distance travelled when you use 1 rubber band and 2 rubber bands.

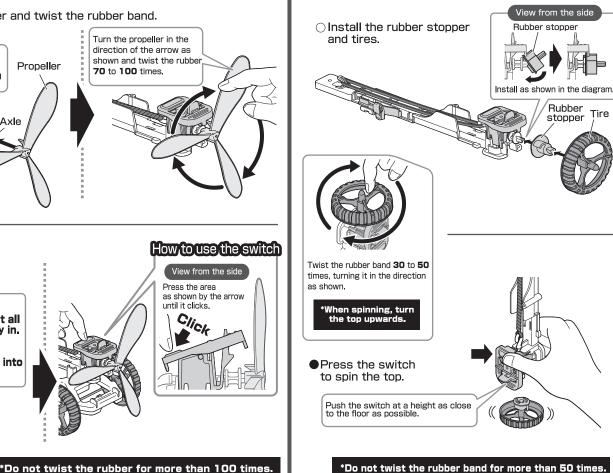


		When there is only 1 rubber band		When there are 2 rubber bands		
e	1 st time	m	cm	m	cm	
Distance	2 nd time	m	cm	m	cm	
Ö	3 rd time	m	cm	m	cm	
Summary						



the way in.

Click it into



Let's spin the top

