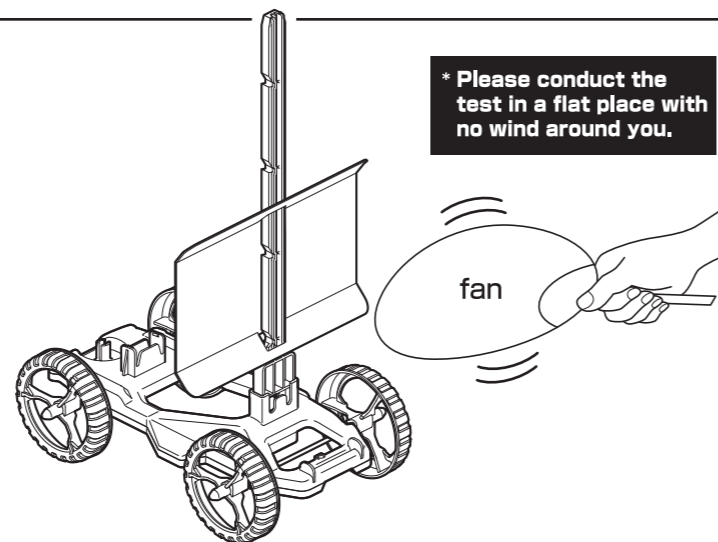


Name \_\_\_\_\_

## Wind Mechanisms

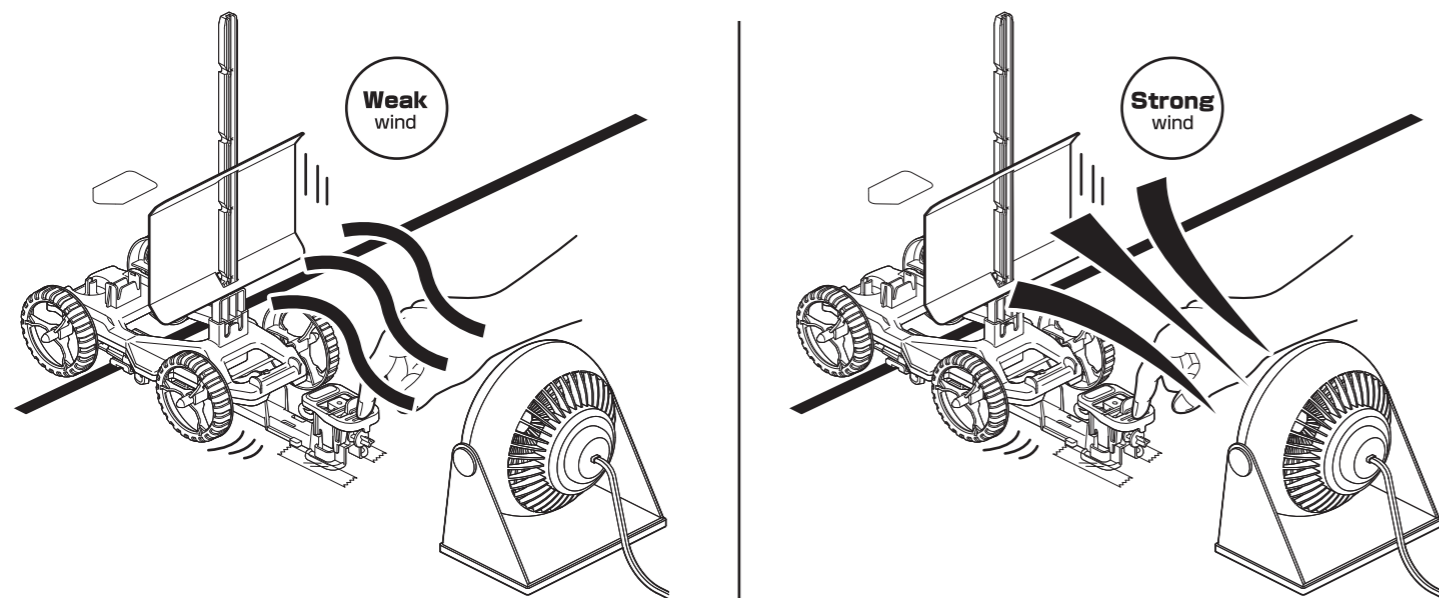
### Introduction **Let's make the wind car move**

☆ Write about your observation when you make the wind car move.



### Experiment 1 **Wind strength and movement**

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

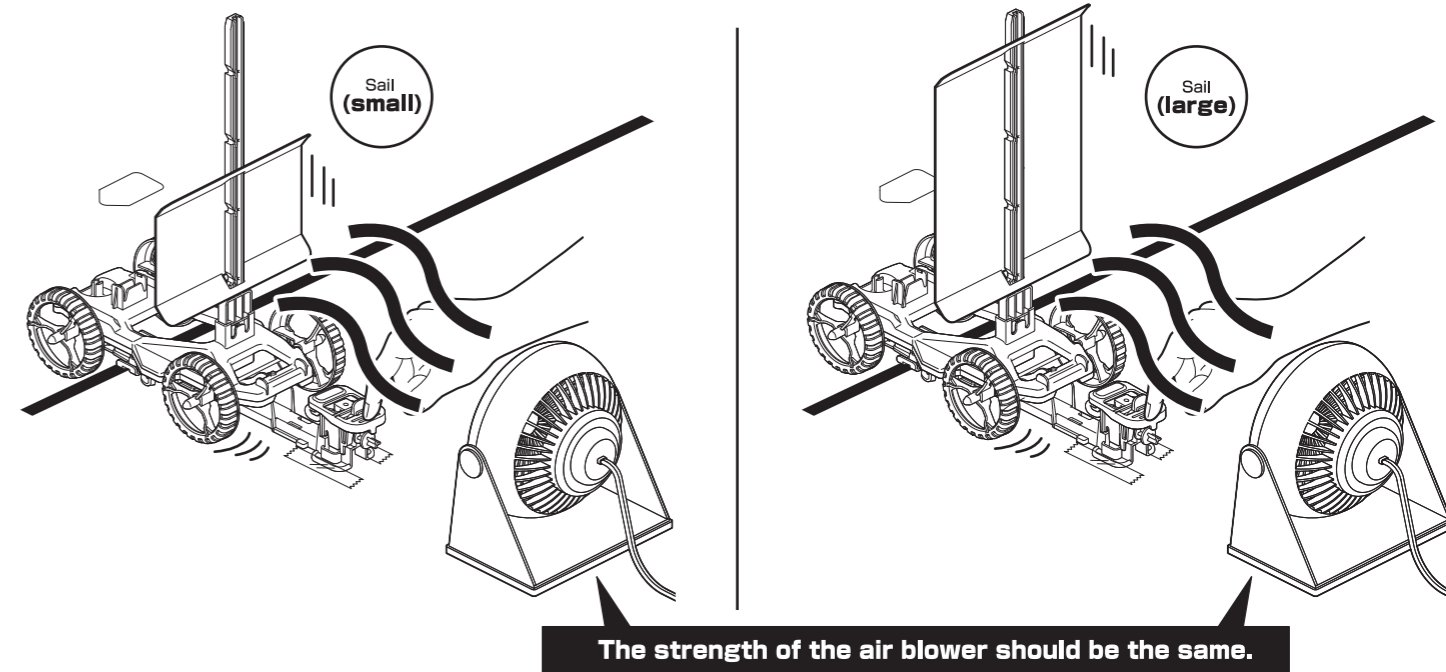


☆ Let's summarize the strength of the wind and how the car moves in the table below.

		When the wind is <b>weak</b>		When the wind is <b>strong</b>	
Distance	1 <sup>st</sup> time	m	cm	m	cm
	2 <sup>nd</sup> time	m	cm	m	cm
	3 <sup>rd</sup> time	m	cm	m	cm
Summary					

## Let's do it! **Sail size and movement**

• Find out if there is a difference in distance the vehicle can run depending on the size of the sail.



☆ Summarise your findings in the table below.

		Sail ( <b>small</b> )		Sail ( <b>large</b> )	
Distance	1 <sup>st</sup> time	m	cm	m	cm
	2 <sup>nd</sup> time	m	cm	m	cm
	3 <sup>rd</sup> time	m	cm	m	cm
Summary					

☆ Write down what you have learnt about the effect of wind on the distance travelled.

- When the wind is weak, the distance between the objects becomes (      ), and the distance between the objects becomes (      ) when the wind is strong.
- The (      ) the area exposed to the wind, the shorter the distance traveled; the (      ) the area exposed to the wind, the longer the distance traveled.

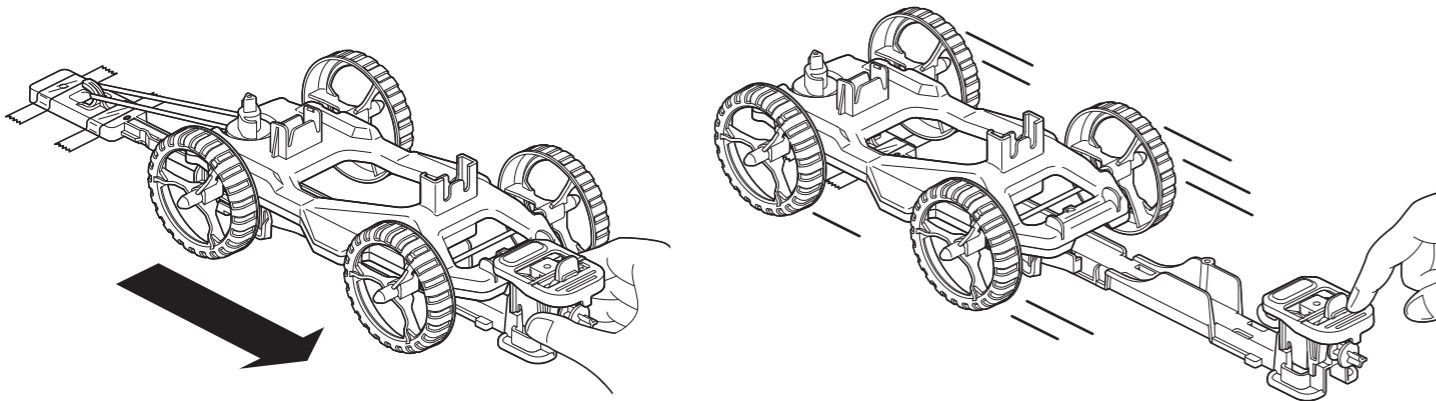
☆ Discuss and summarise how you can use the wind to move objects.

## Rubber Mechanisms

Introduction



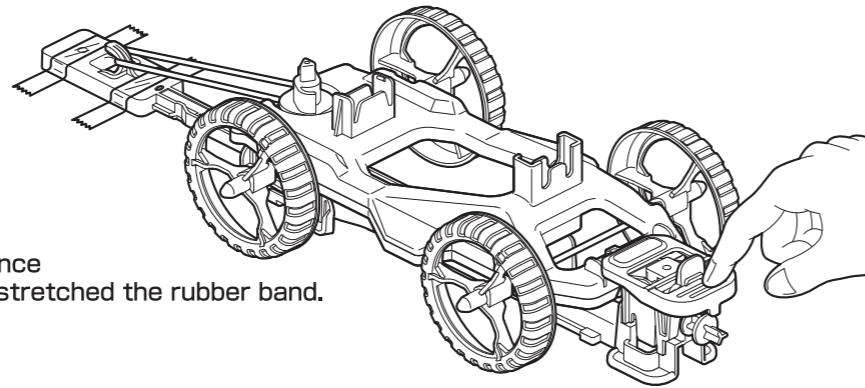
### Let's make the rubber car move



☆ Let's move the rubber car and write down our observation!

Experiment  
**2**

### 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.

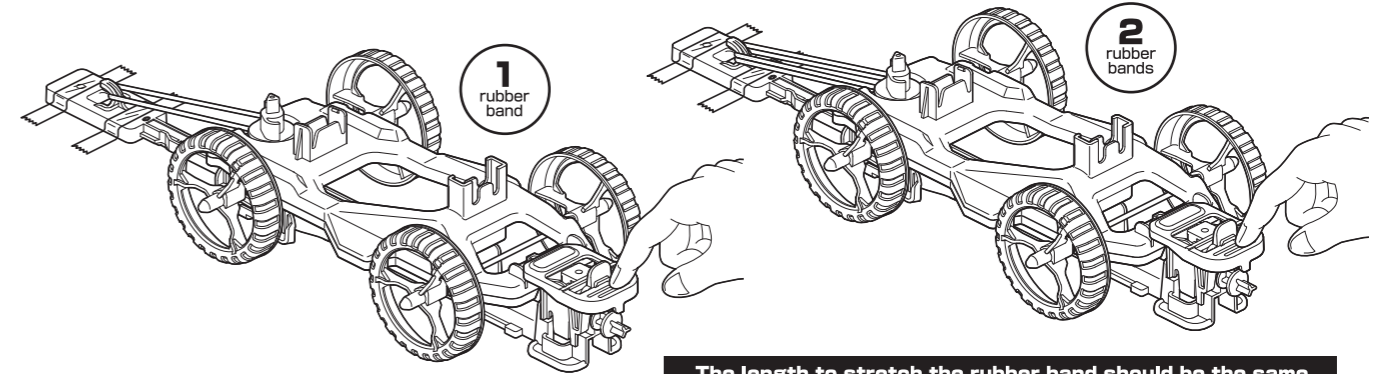
☆ Let's summarise your findings in the table below.

		When stretched to <b>5</b>		When stretched to <b>10</b>		When stretched to <b>15</b>	
		m	cm	m	cm	m	cm
Distance	1 <sup>st</sup> time						
	2 <sup>nd</sup> time						
	3 <sup>rd</sup> time						
Summary							

Experiment  
**3**

### Number of rubber bands and movement

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



The length to stretch the rubber band should be the same (5 on the scale) for the experiments.

☆ Let's summarise your findings in the table below.

		When there is only <b>1</b> rubber band		When there are <b>2</b> rubber bands	
Distance	1 <sup>st</sup> time	m	cm	m	cm
	2 <sup>nd</sup> time	m	cm	m	cm
	3 <sup>rd</sup> time	m	cm	m	cm
Summary					

☆ For Experiments 2 and 3, write down what you have learnt about the effect of the number of rubber bands on the distance travelled.

- When the rubber is stretched to a ( ) length, the distance travelled by the object is shorter, when the rubber is stretched to a ( ) length, the distance travelled by the object is longer.
- As the number of rubbers band increases, the distance the object moves becomes ( ).

☆ Let's discuss and summarise how to use the force exerted by rubber ands to make an object move.

### Let's do it! Let's make a propeller car move Let's spin the top

☆ Write about your impressions of driving a propeller car and spinning a top.

