

## SCIENCE WORKSHEET - GRADE 4

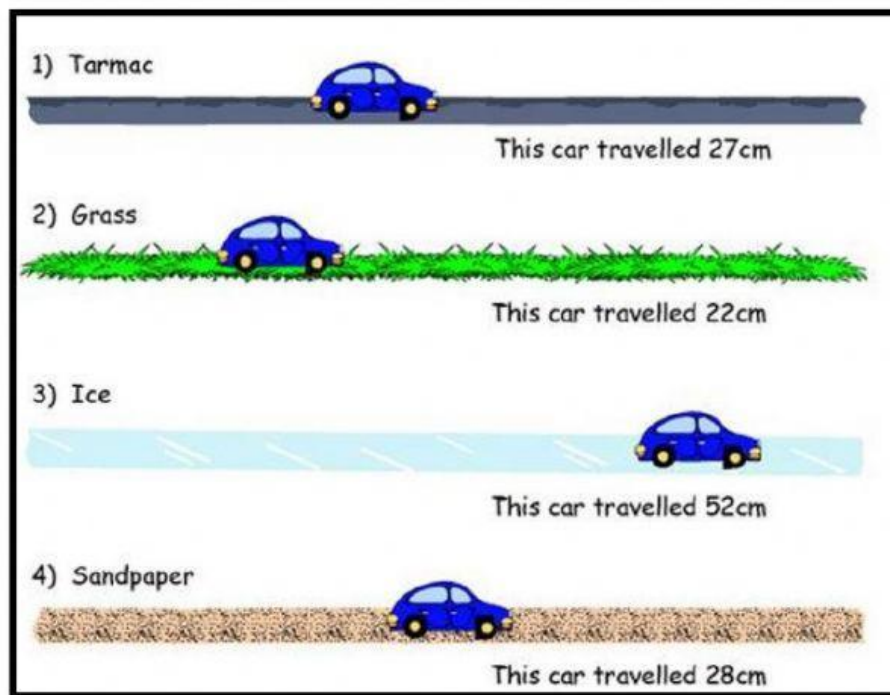
Name:.....

Class: 4CI....

Date: 01/2022

### REVISION: FRICTION – WATER RESISTANCE – AIR RESISTANCE

**EXERCISE 1.** Look at the cars and road surfaces below:



*Put the different surfaces in order, starting with the surface which has the most friction (write tarmac/grass/ice/sandpaper):*

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

**EXERCISE 2.** Fill in the blanks with the words given in the word bank.

air resistance

friction

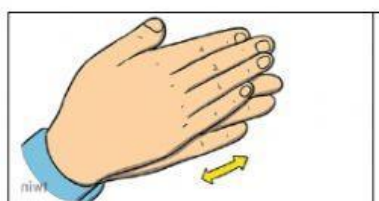
water resistance

slows down

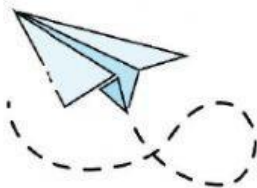
opposite

1. Water resistance and air resistance are types of \_\_\_\_\_.
2. Friction is the force that \_\_\_\_\_ the moving object.
3. \_\_\_\_\_ is a force that slows things down that are moving through air.
4. \_\_\_\_\_ is a force that slows things down that are moving through water.
5. Friction always works in \_\_\_\_\_ direction to the direction the object is moving.

**EXERCISE 3.** What type of force is present in the following pictures? Write “A” for air resistance, “W” for water resistance and “F” for other types of friction.



The force between the two hands.



The force between the plane and the air.



The force between the boy and the water.



The force between the parachute and the air.

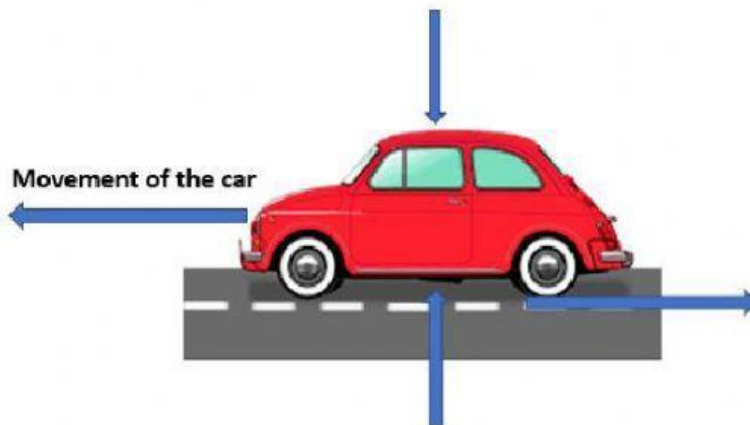
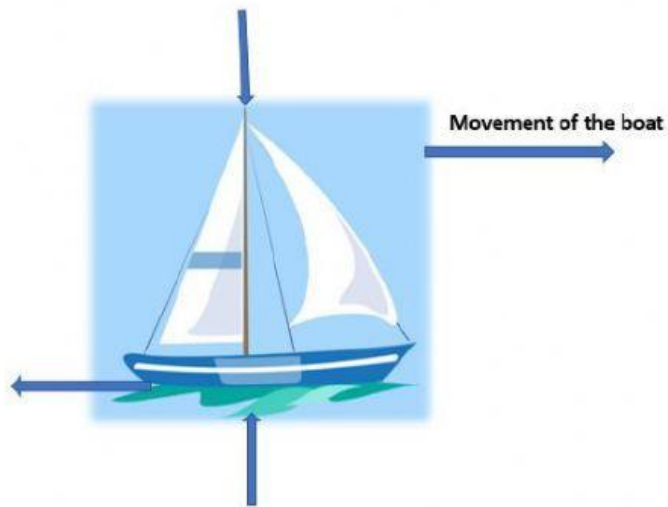


The force between the table and the ground.

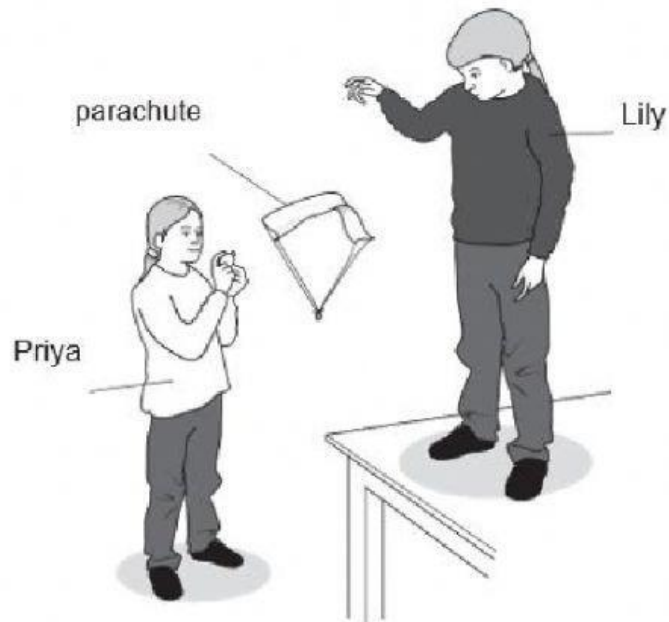


The force between the boy and the slide.

**EXERCISE 4.** For each situation, LABEL the forces.



**EXERCISE 5. Priya and Lily investigate air resistance.**



- Priya uses a stopwatch
- Lily drops parachutes.

Here is their prediction: “We think bigger parachutes will fall more slowly.”

Their prediction is correct. Complete the sentences. Choose words from the list.

**less**

**more**

**the same**

The bigger parachutes have \_\_\_\_\_ air resistance.

This makes the bigger parachutes fall with \_\_\_\_\_ speed.