

FLUID MECHANICS

KATKA MALIŠKOVÁ NOUR EL OMRI KATKA GOMBÁROVÁ SÁRA KRAJČOVIČOVÁ LILLY VOŘÍŠKOVÁ

TOPIC:

• VERIFYING THE PASCALS LAW.

MATERIALS:

1. TWO SYRINGES
2. ONE PLASTIC TUBE
3. WATER









PROCEDURE:

1. FILL BOTH SYRINGES HALFWAY WITH WATER.

- 2. CONNECT THE TWO SYRINGES USING THE PLASTIC TUBE, ENSURING THERE IS NO AIR TRAPPED INSIDE.
- 3. HOLD THE SYRINGES HORIZONTALLY AND PRESS THE PLUNGER OF ONE SYRINGE.

4. OBSERVE THE MOVEMENT OF THE PLUNGER IN THE SECOND SYRINGE.



CONCLUSION:

THIS EXPERIMENT DEMONSTRATES • PASCALS LAW, WHICH STATES THAT PRESSURE APPLIED TO A CONFINED FLUID IS TRANSMITTED EQUALLY IN **ALL DIRECTIONS THROUGHOUT THE** FLUID. THE MOVEMENT OF THE SECOND PLUNGER SHOWS THAT THE PRESSURE FROM THE FIRST SYRINGE **IS TRANSFERRED THROUGH THE** LIQUID IN THE TUBE.



OUR EXPERIMENTS



WATER:



OIL:



SODA:





THANKS FOR YOUR ATTENTION!