

## **EXPERIMENTS**

---

All experiments are in accordance with the age of the students.

### **Experiment on liquid density**

Each liquid is characterised by its specific density.

We pour in a cylinder four types of liquid – glicerine, water /coloured in advance/, oil and alcohol combustion . After the experiment we can see that depending on its density , the liquids are arranged as following – the glicerine is the lowest as it's the thickest. The water, oil and alcohol combustion stay above .

### **Experiment on temperature abnormality of water**

At a temperature between  $0^{\circ}\text{C}$  and  $4^{\circ}\text{C}$  water reflects unordinary. Unlike other liquids , it shrinks when heated and expands when cooled. We call it “the temperature abnormality of the water” .

We pour equal quantity destilated water in three volumetric flasks. The first we heat to  $80^{\circ}\text{C}$  . The second and the third we cool to  $4^{\circ}\text{C}$  and  $0^{\circ}\text{C}$  . The level of the liquid is marked . Then we compare the three containers. The maximum quantity is registered in the container heated to  $80^{\circ}\text{C}$  . Heated to  $0^{\circ}\text{C}$  water volume is higher when heated to  $4^{\circ}\text{C}$