



EVS

Class: 5th

Topic: Racing drops – speed of liquids

TOPIC 15

Name :

village name :

DAY-1 LET'S RECALL

Water is a universal solvent.

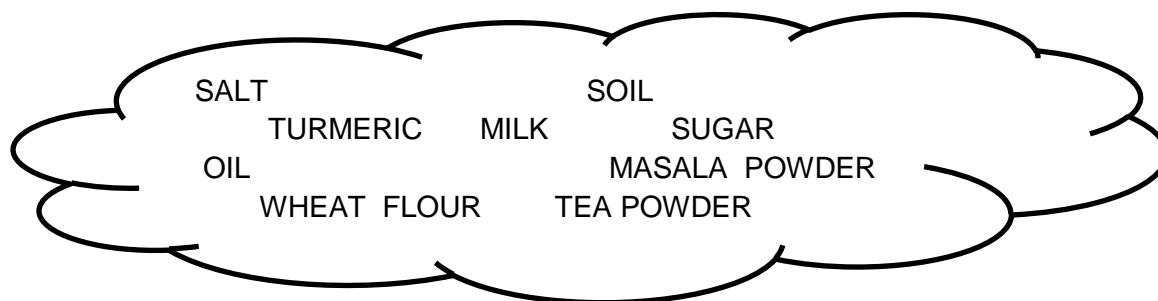
Universal Solvent: Water is called the universal solvent because it can dissolve many substances in it.

➤ Materials which get dissolved in water are said to be **soluble** in water .

➤ Materials which do not get dissolved in water are **insoluble** in water .

Out of things given in the cloud

List the things which can dissolve in water in soluble column and things which cannot dissolve in water in insoluble (perform the experiment and check for things you don't know whether it will dissolve or not dissolve):



SOLUBLE	INSOLUBLE



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DAY-2 Make layer of float.

Do all liquids mix with water?

Let's try out one experiment:

- Take washing liquid, shampoo and oil. Try to mix these three with water and find out which one mixes with water and which does not mix with water.
- Also take any other 2 liquids available at your home and check whether it mixes with water or not.

Things	Mixes / Does not mix with water
1- Washing liquid	
2- Oil (Hair oil/ cooking oil)	
3- Shampoo	
4-	
5-	

➤ **WHAT DO YOU THINK?**

- Why some liquids do not mix with water?

Racing drops –Who is faster?

In this game , you have to take three different liquids oil, water and sugar solution and put two drops of each on the lid of a box from a starting point and also fix an end point After that you have to tilt the lid and observe the speed of different liquids by noting down time of different liquids.



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SHIVANAHALLI**

Let's perform a Race of liquids :

LIQUIDS	TIME TAKEN (to reach end point)
Cooking oil	
Water	
Sugar solution	
Sanitizer	
Honey	

- **Which liquid reaches the end point first ?**

- **Which liquid reaches the end point last?**

- **Compare honey and water - Which liquid is more thick ? which one reaches end point last?**

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- **Compare cooking oil and sugar solution(sugar with water) -Which liquid is more thin? which one reaches end point first?**

WHAT DO YOU THINK?

- **Does the speed of liquid depend on the thickness of liquid?**



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- Write in increasing order of speed the names of different liquids.

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MILK TEST

- Take Lid of a box, put two drops of milk on it, keep the lid in sliding position for some time. Now mix water in the milk and again keep the lid in sliding position and observe the flow of milk.

Note down the timing of the each sample of milk

Milk test	Time taken
Milk	
Milk with water	

- Does the drop of milk slide down fast if it is mixed with water?
Give reason for your answer ?

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**SRI SARADA DEVI VIDYA KENDRA
SHIVANAHALLI**