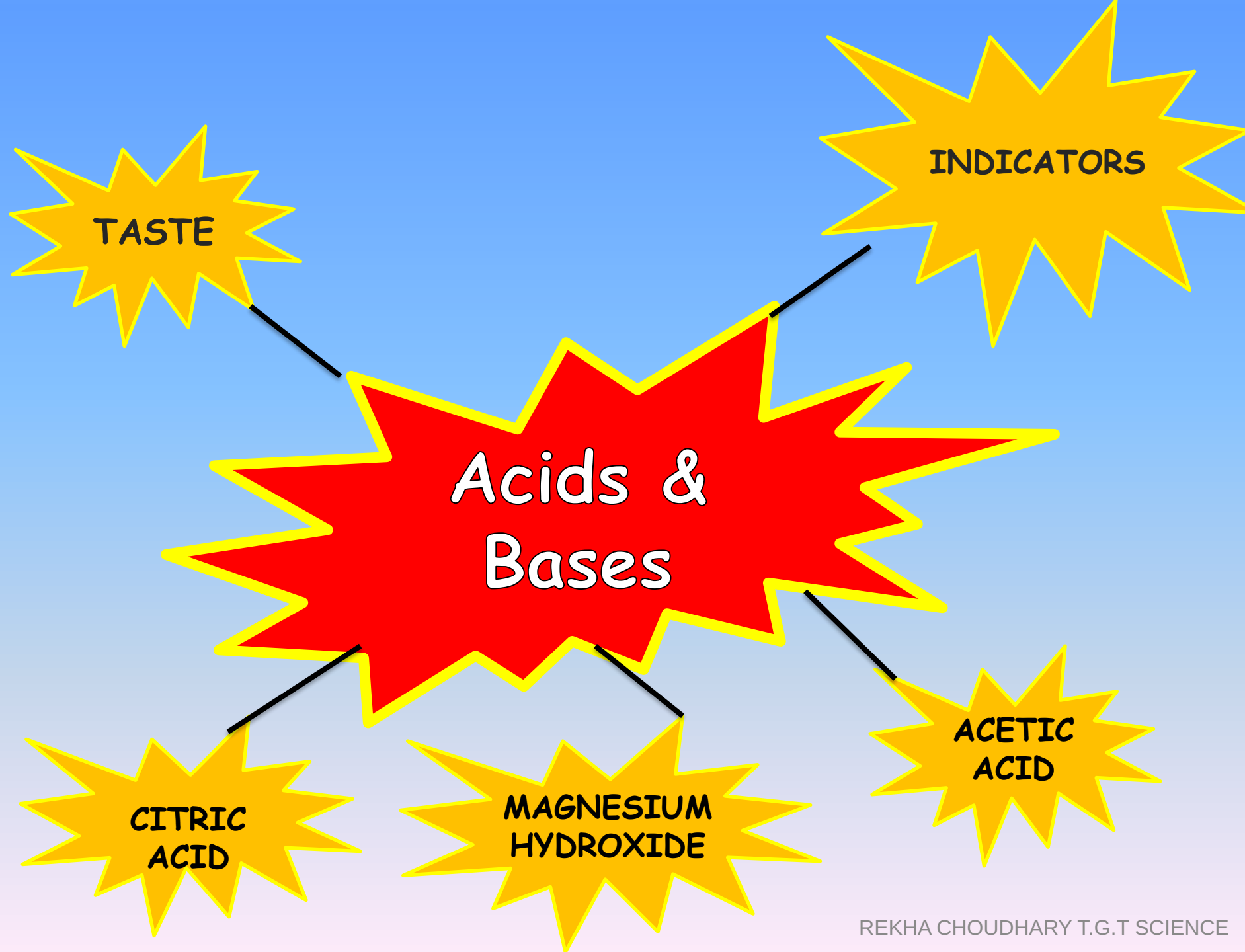




Acids and Bases



ACIDS



SOUR IN TASTE



CHANGE THE COLOUR OF BLUE LITMUS TO RED

BASES

- BITTER IN TASTE
- SOAPY IN TOUCH
- CHANGE THE COLOUR OF RED LITMUS TO BLUE

SOME NATURALLY OCCURRING ACIDS

- Vinegar - Acetic acid
- Orange - Citric acid
- Tamarind - Tartaric acid
- Tomato - Oxalic acid
- Sour milk (curd) - Lactic acid
- Lemon - Citric acid
- Ant sting - Methanoic acid
- Nettle sting - Methanoic acid

INDICATORS

Name of Indicator	Colour in Acids	Colour in Bases
LITMUS	RED	BLUE
TURMERIC	YELLOW	BRIGHT RED
PHENOLPHTHALEIN	COLOURLESS	PINK

Litmus as Indicator

-  Natural indicator obtained from Lichen (Thallophyta) plant.
-  Purple colour in neutral solution
-  Red colour in acidic solution
-  Blue colour in basic solution



Types of Indicators

- **NATURAL INDICATORS**

- TURMERIC

- LITMUS

- RED CABBAGE LEAVES

- PETALS OF HYDRANGEA FLOWER

- PETALS OF PETUNIA FLOWER

Types of Indicators

- **SYNTHETIC INDICATORS**

- METHYL ORANGE

- PHENOLPHTHALEIN

Types of Indicators

- **OLFACTORY INDICATORS**

- THESE ARE SUBSTANCES WHOSE ODOUR CHANGES IN ACIDIC OR BASIC MEDIUM.
- E.G. ONION , CLOVE OIL , VANILLA EXTRACT