

A decorative graphic on the left side of the slide featuring a blue parallelogram and a light green parallelogram, both tilted at an angle, set against a dark blue background with diagonal stripes.

# *ACIDS BASES AND SALTS*

## *INDICATORS*

# INDICATOR

**A substance which detects the acidic or basic nature of another substance by change in colour is called acid-base indicator.**

# NEED OF INDICATOR

**It is not advisable to taste any substance in laboratory because it can be harmful. Hence, acid-base indicators are used to check if a given substance is acid or base.**

# TYPES OF INDICATORS

- Indicators can be divided into two types
- **Natural Indicator:** Indicators that are obtained from naturally occurring substance are called natural indicators. Example: litmus, turmeric, China rose, etc.
- **Synthetic Indicator:** Indicators that are made in laboratory are called synthetic indicators. Example: phenolphthalein, methyl orange, etc.

# **EXAMPLE OF INDICATOR IN OUR DAILY LIFE**

**While washing clothes if a shirt having a spot of curry turns to reddish brown when comes in contact with the detergent soap but soon disappears when washed thoroughly. This is due to the presence of base in detergent that changes the colour of the turmeric indicator.**

# PLENARY

*Q. What are indicators?*

# *ASSESSMENT*

**Q. What is the need of indicators?**