

## Class – VII

### Lesson Plan (2023-24)

#### Topic: Simple Equations

**Brief Description of the lesson:** In this chapter, we shall be learning about linear equations in one variable. We will also be dealing with various methods like trial-and-error, and transposition to find their solution.

#### **Objectives:**

##### **Specific Objective**

To enable the students to

S1 Understand about Linear Equations. **U**

S2 Frame Linear Equation. **K**

S3 Solve an Equation with different methods. **U**

#### **II - Behavioural Objectives:**

Following behavioural objectives can be achieved-

B1 It's necessary to know all variables to solve an unsolved mystery. **K**

B2 We need to keep trying to succeed. **A**

B3 Errors and mistakes make us learn more and teach us new ways to look at the problem. **A**

#### **Process / Activities:**

First of all, the teacher will start off by reminding students regarding the basic terms related to equations. An equation is a condition on a variable such that two expressions in the variable should have equal sign. The value of the variable for which the equation is satisfied is called the solution of the equation. Teacher will show PPT and discuss the different methods of solving equations i.e. trial-and-error, and transposition method to find their solution.

- **Activity 1 (to introduce the lesson)**

In a class some situations will be discussed and students will frame algebraic expressions by using variable and constant. (**synthesis**)

- **Activity 2 (to support learning):**

Students will be asked to share some situations where linear equations can be used and students will frame the equation for the given situation. (**Generating**)

For example:

Aman's father is 7 years more than four times Aman's age. How old is Aman, if his father is 55 years old.

**Skills (as per subject):** - Critical thinking, Calculation and Application

#### **Expected Learning Outcomes:**

Students would be able to:

- Frame Linear Equations. **K**
- Apply transposition method to solve equations. (**U**)
- Realize that we need to keep trying to succeed. (**App.**)
- Learn that errors and mistakes make us learn more and teach us new ways to look at the problem. (**App.**)

- Understand that knowing every argument correctly matters to reach a conclusion. K

**Assessment:**

Solve the following problems given below:

1. Check whether the given value i.e.  $x = 2$  makes the equation true:  $5x + 5 = 15$ .
2. Solve the equation  $x + 8 = 24$ .
3. Solve the equation  $3b + 2 = 11$