

# **Akal academy bhai desa**

**Class:- 10th.      lesson plan:- \_\_\_\_\_.      Date:-**

**Topic:- Quadratic equations      Overview:- 10 periods+2periods**

**Teaching Aids:-Green board, Chalk, Duster,Charts.**

**Pre requisite knowledge:-**

- Basic knowledge of polynomials.
- Basic knowledge of linear equations in one variable.

**Objectives:-**

- Introduction of quadratic equations.
- Solution of a quadratic equation by factorisation .
- Solution of a quadratic equation by completing the square and quadratic formula (Discriminant method).
- Nature of roots.

**Engage:- Start the lecture by checking their previous knowledge like:-**

1. What is polynomial ?
2. What are the variables and constant?
3. Name different type of polynomials ?

**Explanation:-**

- Teacher will write the general equation of quadratic polynomial and explain it's all components.
- Teacher explain the all method which are used to find the roots of quadratic equations:
  1. Factorisation method
  2. Completing square method
  3. Discriminant method(quadratic formula)
- Teacher will also explain the nature of root by using quadratic formula.

**Expected outcomes:-**

- Students will be able to know all important concepts related to quadratic equation. Students should know the use of factorisation method, completing square method and discriminant method.

**Explore:-**

- students will review questions given by the teacher.

Students will solve NCERT problems with examples and assignments given by teacher.

**Final recapitulation:-**

Teacher will recall the main important points at the end of the class.

**Evaluation:-**

- Separate worksheets will be provided by teacher which includes logical thinking and HOTS questions to above average students.
- Written test will be conducted by teacher.

**Sign of teacher**

**sign of HOD**