Name of Student Teacher: Venissa William Colaco

Class   : IXth

Subject: Mathematics

Topic   : Polynomial: Classification of a Polynomial

_____

_____

Previous Knowledge: Different shapes of objects, polygons

Learning Objectives: KNOWLEDGE: The pupil acquire knowledge on concept of a polynomial.

UNDERSTANDING: The pupil develops an understanding on the concept of a polynomial.

APPLICATION: The pupil applies his knowledge and understanding in new familiar situations. The pupil develops skill in practical aspect of maths.

Statement of Aim: So today we shall learn about Polynomial and the classification of polynomial.

Core Elements: Inculcation of scientific temper

Core Values: Scientific temper

Learning Resources/ Teacher's Tool Box: PPT, PAPER, PEN.

Content/ Sub-Points	Teacher's Activity	Student's Activity
Introduction of the Topic	Teacher asks the students what are the different shape of the objects. Teacher than ask the different types of polygons. After showing the different types of polygons teacher introduces the basic concepts of polynomial.	Students answers Students answers Pupil understands and note down
Concept of Polynomial	Teacher first explains the terms monomial, binomial and trinomial with examples to simplify the term polynomial. Then teacher explains the definition of polynomials i.e. Expression with many terms. Teacher explains the terms degree, coefficients and degree of a polynomials using example of $3xyz + 2xy + 2y +7$	Students note down
Classification of polynomials	Teacher than explains the classification of polynomials with examples. Teacher tells that polynomials are classified into 3 types: linear, quadratic and cubic polynomial 1) Linear polynomial-having 1 degree of power 2) Quadratic polynomial- having 2 degree of power 3)Cubic polynomial - having 3 degree of power	Students note down and solve

	Teacher then gives problems to identify the polynomials
	   1. $5x - 4$
	   2. $x^2 - 5x - 8$
	   3. $2x^3 + 7x^2 - 2$
		Students note down and solve

Content/ Sub-Points	Teacher's Activity	Student's Activity
Not a polynomial	The teacher explains why 1) NEGATIVE POWER eg. $4x^{-3}$ 2) DIVISION WITH VARIABLES eg. 2/X-3 3) RATIONAL NUMBER eg. $X^{1/2}$ are not a polynomials.	Students note down and solve
Not a polynomial	The teacher explains why 1) NEGATIVE POWER eg. $4x^{-3}$ 2) DIVISION WITH VARIABLES eg. 2/X-3 3) RATIONAL NUMBER eg. $X^{1/2}$ are not a polynomials.	Students note down and solve

Assessment: 1) What is the degree of a polynomials : 5xyz + 7xy + 2y +10

Assignment : 1) Identify the type of the polynomial.

1. $3x^3 + 9x^2 - 2x - 7$
2. $9x^2 - 2x - 7$
3. $2x - 7$

Blackboard Writing

Std.: IXth   **Date: _____**

Subject : Mathematics

Topic   : POLYNOMIAL

DEGREE	TYPES	EXAMPLE
ONE	LINEAR	$5x - 4$
TWO	QUADRATIC	$x^2 - 5x - 8$
THREE	CUBIC	$2x^3 + 7x^2 - 2$

Observers Remarks: _____

_____
_____
_____

    Sign of Guide   **Sign of Observer**