Competency Based Lesson / Unit Plan

Name of School: VASHISTT PUBLIC SCHOOL BEHDALA, UNA

UNIT-1- CHEMICAL REACTIONS AND EQUATIONS

1. Name of the teacher: RAKESH KUMAR **Designation: PGT Chemistry**

2. Subject: - Science (CHEMISTRY) **Class 10** Section: A, B & C

3. Lesson/Unit Name: - CHEMICAL REACTIONS AND EQUATIONS

No. of periods required –08 **Duration From**... /... / …… **to...** /... / ……..

A. **Learning Outcomes** –

1. Compare the characteristics of initial and final substance in order to check whether the change is physical or chemical.

2. Relate the substance taking part in chemical reaction and substance formed in chemical reaction in order to classify them as reactants and products.

- .Use chemical symbol and chemical formula correctly in order to acquire the skill of writing chemical equations.
- Apply law of conservation of mass in order to balance the chemical equations.
- Classify the given reaction as displacement and double displacement based on reactants and products.
- Categories the given reaction as combination/decomposition based based on reactants and products.

7 Predict the reaction as oxidation and reduction based on addition /removal of oxygen and hydrogen.

- .Observe the colour change in iron copper, silver articles overtime in order to outline the effect of corrosion in our surroundings (real life situation.)
- Detect change in smell colour, taste, of food items.

B. Details of Pedagogical Strategies/Process (Art integrated /Sports integrated/ Story telling based/Toy based /any other pedagogy):

1. Art integrated activity: diagram of decomposition of lead nitrate, burning of magnesium ribbon , decomposition of water by passing electricity.
2. Toy based process: test tube, beaker, china dish.
3. Story telling based; carbon dioxide gas passing in lime water story.

C Topic of the lesson for presentation by the students –Divide the class in five groups (each group once in a week by rearranging classroom)

D. Name 21st Century Skills to be developed:

a. Critical thinking by giving different chemicals to select as reactants and products .
b. Collaboration by collecting reactants and products

E.Activities/Experiments/Hands-on-learning/Projects:

1. Reaction between quick lime and water.
2. Reaction between copper sulphate solution and iron nail.
3. Burning of LPG
4. Burning of paper

F. Interdisciplinary linkage and infusion of Life Skills, Values, Gender Sensitivity and Environmental Awareness: Self awareness, Think scientifically and artistically to solve real life problems

G. Resources (including ICT):

1. **www.chemigod.com**
2. **www.chemistryworld.com**
3. **http://www.chem.uci.edu**
4. NCERT Text Book

H. Assessment items for measuring the attainment of learning outcomes in the class and as home assignments (All the Assessment Items are planned and are linked with learning outcomes mentioned in Para A):

Items	No of Items	Sr.No. of LO	Items	No of Items	Sr.No. of LO
Oral Quiz	8	6,7,8	Presentation	1	6
Portfolio	–	8	Puzzle		
Multiple choice Questions	8	6,7,8	Group Project	1	6
Very Short Answer Questions	8	6,7,8,9	Individual Project	1	6
Short Answer Questions	8	6,7,8,9	Any other Item		
Long Answer Questions	2	6,7,8			
Compentancy based Questions	3	6,7,8			

I. **Remedial Teaching Plans/Plan for unfinished portion of previous unit:**

1. Practice of previous year CBSE questions
2. Practice of competency-based questions
3. Practice of Assertion-reason type of questions
4. Practice of various chemical reactions to balance

J. Inclusive Practices (Activities/Support measures for Differently abled students):NA

Date: …….. (Signature of the teacher)

Remarks of the Principal/Vice Principal:

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(Signature of the Principal)