



*Sir Padampat Singhania Education Centre*  
*Kamla Nagar, Kanpur*

*Lesson Plan*  
*Session 2017 - 2018*  
*Class: XIth*

**Subject** : CHEMISTRY  
**Book** : NCERT

**Subject Coordinator**  
Name: Ms.KIRTI SHARMA

**Head of Department**  
Name: Ms.KIRTI SHARMA

Sign:

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# Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

## Yearly Syllabus/Planning overview

Session: 2017 - 2018

Subject: Chemistry

Class: XIth

No. of periods: 6

| Month                    | Assessed in | Lesson/s to be covered  | Period Count |
|--------------------------|-------------|---|--------------|
| April                    | 2017        | CH-1: Some basic concepts of chemistry                                | 15           |
| May                      | 2017        | CH-2: Atomic structure<br>CH-3: Environmental chemistry               | 14<br>06     |
| July                     | 2017        | CH-4: Periodic Table<br>CH-5: Chemical Bonding                        | 08<br>16     |
| August<br>+<br>September | 2017        | CH-6: Redox Reactions<br>CH-7: Hydrogen<br>CH-7: Chemical Equilibrium | 06<br>08     |
| September                | 2017        | CH-8 :Chemical Equilibrium  | 10           |
| October                  | 2017        | CH-09: Thermodynamics<br>CH-10: States of Matter                      | 16<br>12     |
| November                 | 2017        | CH-11 : General Organic Chemistry<br>CH-12: Hydrocarbons              | 14<br>12     |
| December                 | 2017        | CH-13: S-block elements<br>CH-14: P-block elements                    | 10<br>14     |

Subject coordinator:

HOD:





# Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

## Weekly planning overview

Session: 2017- 2018

Subject :Chemistry

Class : XIth

No. of periods: 6

| Period  | Topic/s to be covered in classroom                    | Homework             | Status (Yes/No)<br>(Reason if No) |
|---|---|----------------------|-----------------------------------|
| <b>WEEK 1: 3<sup>rd</sup> July to 8<sup>th</sup> July</b>   |   |                      | <b>Period Count: 5</b>            |
| PD1   | Basic concept of Periodic table,Introduction          |                      |                                   |
| PD2   | IUPAC of elements and blocks in periodic table        |                      |                                   |
| PD3   | Various types of radius, size of ions(cations,anions) |                      |                                   |
| PD4   | Ionisation energy & various factors of I.E            | Questions of NCERT   |                                   |
| PD5   | Electron affinity & Various factors                   | Questions of NCERT   |                                   |
| PD6   | -----   |                      |                                   |
| <b>Holiday 8/7/17 Second Saturday.</b>                      |   |                      |                                   |
| <b>WEEK 2: 10<sup>th</sup> July to 15<sup>th</sup> July</b> |   |                      | <b>Period Count: 6</b>            |
| PD1   | Electronegativity and factors                         |                      |                                   |
| PD2   | Diagonal relationship and acidic &basic oxides        |                      |                                   |
| PD3   | Problem discussion class                              | Conceptual Questions |                                   |
| PD4   | Introduction of chemical Bonding& Types of Bonds      |                      |                                   |
| PD5   | Ionic bond, formation, factors and properties         |                      |                                   |
| PD6   | Covalent bond ,formation and properties               |                      |                                   |

Subject coordinator

Supervisor

Principal/V. Principal

**Weekly planning overview**

**Session: 2017 - 2018**

**Subject** : Chemistry      **Class** : XIth      **No. of Periods: 6**

| Period  | Topic/s to be covered in classroom                 | Homework                    | Status (Yes/No)<br>(Reason if No) |
|---|--|-----------------------------|-----------------------------------|
| <b>WEEK 3: 17<sup>th</sup> July to 22<sup>nd</sup> July</b> |  | <b>Period Count:6</b>       |                                   |
| PD1   | Formal Charge. Octet rule and its failure          |                             |                                   |
| PD2   | Parameters of bond, resonance structure & examples |                             |                                   |
| PD3   | Dipole moment & VSEPR theory                       |                             |                                   |
| PD4   | Valence bond theory and structures                 |                             |                                   |
| PD5   | Overlapping of Orbitals to form covalent bond      |                             |                                   |
| PD6   | Hybridisation concept and structures               | Recapitulation by Worksheet |                                   |
| <b>WEEK 4: 24<sup>th</sup> July to 29<sup>th</sup> July</b> |  | <b>Period Count: 6</b>      |                                   |
| PD1   | M.O.T theory and M.O. diagrams                     |                             |                                   |
| PD2   | Calculation of Bond order of molecules             |                             |                                   |
| PD3   | Comparison of bond order and stability             |                             |                                   |
| PD4   | Hydrogen bond                                      |                             |                                   |
| PD5   | Factors of hydrogen bond and applicatios           |                             |                                   |
| PD6   | Problem discussion class of chemical bonding       | PRACTICE SHEET              |                                   |



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## Weekly planning overview

Session: 2017 - 2018

Subject : Chemistry

Class : XIth

No. of periods: 6

| Period   | Topic/s to be covered in classroom                          | Homework                          | Status (Yes/No)<br>(Reason if No) |
|--|---|-----------------------------------|-----------------------------------|
| <b>WEEK 5: 31<sup>st</sup> July to 5<sup>th</sup> August</b>   |   | <b>Period Count: 6</b>            |                                   |
| PD1  | Questions of NCERT  | Recapitulation by Worksheet       |                                   |
| PD2  | Introduction of redox reactions, reduction, Oxidation       |                                   |                                   |
| PD3  | Examples of reducing & Oxidising agents                     |                                   |                                   |
| PD4  | Concept of Oxidation & calculations of O.S of molecules     |                                   |                                   |
| PD5  | Balancing of equation by ion electron method                |                                   |                                   |
| PD6  | Balancing of equation by oxidation no. method               |                                   |                                   |
| <b>WEEK 6: 7<sup>th</sup> August to 12<sup>th</sup> August</b> |   | <b>Period Count: 4</b>            |                                   |
| PD1  | -----   |                                   |                                   |
| PD2  | Concept of electrochemical cell, electrode potential        | Recapitulation by Worksheet       |                                   |
| PD3  | Introduction of Hydrogen and its position in periodic table |                                   |                                   |
| PD4  | Isotopes of Hydrogen, occurrence and preparation            | Recapitulation by Worksheet, Quiz |                                   |
| PD5  | Properties of Hydrogen and reactions                        |                                   |                                   |
| PD6  | -----   |                                   |                                   |

**Holiday 7/8/17 Raksha Bandhan**

**Holiday 12/8/17 Second Saturday**

Subject coordinator

Supervisor

Principal/V. Principal



# Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

## Weekly planning overview

Session: 2017 - 2018

Subject : chemistry

Class : XIth

No. of periods: 5

| Period  | Topic/s to be covered in classroom  | Homework                    | Status (Yes/No)<br>(Reason if No) |
|---|---|-----------------------------|-----------------------------------|
| <b>WEEK 7: 14<sup>th</sup> August to 19<sup>th</sup> August</b> |   | <b>Period Count: 5</b>      |                                   |
| PD1   | Hydrides and its types  |                             |                                   |
| PD2   | -----   |                             |                                   |
| PD3   | Water ,reactions of water , structure and prperties                               |                             |                                   |
| PD4   | Hard and Soft water concept,Types of hardness                                     |                             |                                   |
| PD5   | Methods of softening of water   |                             |                                   |
| PD6   | Hydrogen peroxide,preparations, and reactions                                     | PRACTICE SHEET              |                                   |
| <b>HOLIDAY 15/8/17 INDEPENDENCE DAY</b>                         |   |                             |                                   |
| <b>WEEK 8: 21<sup>st</sup> August to 26<sup>th</sup> August</b> |   | <b>Period Count: 6</b>      |                                   |
| PD1   | Introduction of Equilibrium ,Types of equilibria                                  |                             |                                   |
| PD2   | Law of chemical equilibrium and equilibrium constant                              |                             |                                   |
| PD3   | Homogeneous equilibria and heterogeneous equilibria,factors affecting equilibria. |                             |                                   |
| PD4   | Le-Chateliers Principle explanation   |                             |                                   |
| PD5   | Ionic equilibrium, acid, basic , salts(Arrhenius concept)                         |                             |                                   |
| PD6   | .Ionisation of acid nd bases,ionic product of water                               | Recapitulation by Worksheet |                                   |

Subject coordinator

Supervisor

Principal/V. Principal



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Kamla Nagar, Kanpur

## Weekly planning overview

Session: 2017 - 2018

Subject : Chemistry

Class : XIth

No. of periods: 6

| Period                           | Topic/s to be covered in classroom                 | Homework                | Status (Yes/No)<br>(Reason if No) |
|----------------------------------|--|-------------------------|-----------------------------------|
| <b>WEEK 9: 28/8/17 to 2/9/17</b> |  | <b>Period Count: 5</b>  |                                   |
| PD1                              | PH -Scale and its Numericals                       | Numerical for practice  |                                   |
| PD2                              | Factors affecting acid strength ,Common ion affect |                         |                                   |
| PD3                              | Buffer solutions and types                         |                         |                                   |
| PD4                              | Solubility product concept and its numerical       | Numericals for practice |                                   |
| PD5                              | REVISION FOR HALF YEARLY EXAMINATION               |                         |                                   |
| PD6                              | -----  |                         |                                   |
| <b>HOLIDAY 2/9/17 ID-UL-ZUHA</b> |  |                         |                                   |
| <b>WEEK 10: 4/9/17 to 9/9/17</b> |  | <b>Period Count: 5</b>  |                                   |
| PD1                              | REVISION FOR HALF YEARLY EXAMINATION               |                         |                                   |
| PD2                              | REVISION FOR HALF YEARLY EXAMINATION               |                         |                                   |
| PD3                              | REVISION FOR HALF YEARLY EXAMINATION               |                         |                                   |
| PD4                              | REVISION FOR HALF YEARLY EXAMINATION               |                         |                                   |
| PD5                              | REVISION FOR HALF YEARLY EXAMINATION               |                         |                                   |
| PD6                              | -----  |                         |                                   |

**HOLIDAY 9/9/17 SECOND SATURDAY**

Subject coordinator

Supervisor

Principal/V. Principal





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Session: 2017 - 2018

Subject : Chemistry

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No. of periods : 6

| Period   | Topic/s to be covered in classroom   | Homework                 | Status (Yes/No)<br>(Reason if No) |
|--|--------------------------------------|--------------------------|-----------------------------------|
| <b>WEEK 11: 11/9/17 to 16/9/17</b>                 |                                      | <b>Period Count: 1</b>   |                                   |
| PD1  | REVISION FOR HALF YEARLY EXAMINATION |                          |                                   |
| PD2  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |
| PD3  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |
| PD4  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |
| PD5  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |
| PD6  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |
| <b>HALF-YEARLY EXAMINATION (12/9/17 - 16/9/17)</b> |                                      |                          |                                   |
| <b>WEEK 12: 18/9/17 to 23/9/17</b>                 |                                      | <b>Period Count: NIL</b> |                                   |
| PD1  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |
| PD2  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |
| PD3  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |
| PD4  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |
| PD5  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |
| PD6  | <b>HALF-YEARLY EXAMINATION</b>       |                          |                                   |

**HALF-YEARLY EXAMINATION (18/9/17 - 23/9/17)**

Subject coordinator

Supervisor

Principal/V. Principal

*Sir Padampat Singhania Education Centre, Kamla Nagar, Kanpur*

Book :  
Publication :  
Lesson :

Class :  
Session: 20 - 20  
Subject:

**Lesson Plan**

**Ques 1.**

Ans.

***(Ref.: Page 18)***

**Ques 2.**

Ans.

***(Ref.: Page 18)***

**Ques 3.**

Ans.

***(Ref.: Page 18)***

**Note:** This lesson contains one worksheets.



# Sir Padampat Singhania Education Centre

*Kamla Nagar, Kanpur*

## Lesson plan implementation report

Session: 20 - 20

Term :  
From Date :  
Subject :  
Book :

Assessment :  
To Date :  
Class :  
No. of periods :

| Section | Subject Teacher | Lesson/s to be covered according to lesson plan | Status Yes/No | Reason if not completed |
|---------|-----------------|---|---------------|-------------------------|
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**Remarks:**

Subject coordinator:

HOD: