

CHAPTER-5
SUMMARY AND CONCLUSION

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5.1 Introduction

The investigator arrives at this stage after a rigorous exercise of analyzing the data and providing insight to make objectives more high-yielding and significant. The writing of research findings is usually the concluding task of a research endeavor. Research is directed towards the goal of discovering new knowledge which can contribute to the expansion of the ocean of knowledge.

5.2 Summary of the Study

The higher secondary stage is a preparatory stage for professional courses, and class 11th prepares the foundation for this. At this level the two most aspired professional courses in science field are Engineering and Medical. At this stage Chemistry plays an important role in shaping the future of these aspiring young generation. But Chemistry is considered one of the most fearful and confusing subjects. Because in chemistry many great themes such as periodicity, the mole, the structure of atoms, bond formation, kinetics, chemical equilibrium, energetic and electrochemistry have been introduced with time. Because the development of chemistry in the past few decades is terrific. To cope with this monstrous growth, a teacher has to use a highly efficient method and traditional methods will not work here. For this purpose knowledge of the weaknesses and strengths of the students is very important for teachers today. The present study will be conducted, in order to identify the easy and difficult concepts of Chemistry for the students from the XI standard.

5.3 Findings of the Present Study

The main findings that came out of the study are listed below

1. Mole concept, Periodic classification, Bonding theories, Hybridisation, Redox reactions and the Oxidation number concepts were found to be easy for most of the students.
2. The Atomic models, the Gaseous state, Spontaneity in Thermodynamics and Equilibrium in chemical reactions concepts were found to be difficult for most of the students.

3. The main reason for any topic to be easy for the students was that they understood the topic well with other less found reasons like they took coaching for Chemistry and they liked Chemistry.
4. The main reason for any topic to be difficult for the students was that they did not understand the topic well with other less found reasons like they did not take coaching for Chemistry and they did not like Chemistry.
5. Most of the students have given the correct answers to the questions of Mole concept, Atomic models, Periodic classification, Bonding theories, Hybridisation, Redox reactions and the Oxidation number concepts.
6. Most of the students could not give correct answers to the questions of the Gaseous state, Spontaneity in Thermodynamics and Equilibrium in chemical reactions concepts.

5.4 Educational Implications of the Study

With the help of the findings of this study, a school chemistry teacher will get to know about the difficult concepts of Chemistry for students and also the major reasons for that. That will help a teacher to think of other different methods of content delivery. Which will in turn help students understand the different concepts in the best possible manner. Resulting in more competency of students in Chemistry and ultimately a better prepared students for higher education.

5.5 Suggestions for Further Study

The investigator while conducting research work observed that many aspects were left untouched. Some of the further studies that can be carried out are as follows :

1. The study could be done on a large sample size.
2. The study could be done on other demographic variables.
3. The study could be done in a large number of schools.
4. The study could be done in other districts or regions of the country.
5. As the data collection for the present study was confined to the private school students, therefore it is recommended that similar study may be conducted on other kinds of schools like Government, semi government, aided, non-aided, army schools, etc.

6. As the present study was confined to the CBSE board school students, therefore it is recommended that similar study may be conducted on students from other boards like different State boards and ICSE board schools.
7. As the present study was confined to the English medium school students, therefore it is recommended that similar study may be conducted on students from different mediums of instruction.