

## Appendix

### A. General Information

1. Name:
2. Email ID:
3. Name of the school:
4. Roll number
5. Gender:

### B. Identification of the overall nature of the student towards the science subject.

Strongly Disagree = 1, Disagree = 2, Neutral = 3, Agree = 4, Strongly Agree = 5

S. No.	Statements		1	2	3	4	5
1.	I like the science subject.						
2.	Give rating based on your interest or likeness towards different portions in the science subject? (1 represents least liked and 5 represents most liked)	Physics portion					
		Chemistry portion					
		Biology portion					
3.	The knowledge of the science subject is useful to me.						
4.	I complete my homework regularly.						
5.	I have a personal routine for study.						

6. What is the average percentage of scores you have in the class IX			
	Less than 60%	60 - 80%	Above 80%
Percentage			

**C. Identification of the most difficult areas for the student in the science subject of class IX standard.**

1. The science subject is easy to understand during the classroom teaching.					
	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Percentage					

2. Which is comparatively the most difficult chapter in chemistry portion?				
	Chapter 1 Matter in our surroundings	Chapter 2 Is matter around us pure?	Chapter 3 Atoms and Molecules	Chapter 4 Structure of the Atom
Percentage				

3. Which is comparatively the most difficult chapter in biology portion?			
	Chapter 5 The fundamental unit of life	Chapter 6 Tissues	Chapter 12 Improvement in food resources
Percentage			

4. Which is comparatively the most difficult chapter in physics portion?					
	Chapter 7 Motion	Chapter 8 Force and laws of Motion	Chapter 9 Gravitation	Chapter 10 Work and Energy	Chapter 11 Sound
Percentage					

5. Which portion in the science subject is comparatively difficult to understand.			
	Physics portion	Chemistry portion	Biology portion
Percentage			

6. According to you, what may be the reason why you felt those chapters or portions were the most difficult.

**D. Identification of the issues related to the teaching process used for those difficult chapters of class IX standard.**

Strongly Disagree = 1, Disagree = 2, Neutral = 3, Agree = 4, Strongly Agree = 5

S. No.	Statement	Chapter	1	2	3	4	5
1.	The teacher introduced open ended questions and promoted open ended discussion connecting my previous knowledge with the present learning experiences of those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
2.	The open ended questions and discussion generated interest and curiosity to learn those chapters further.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
3.	The teacher gave examples from my life experiences related to those chapters before starting to teach them.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
4.	The given example generated interest and curiosity to learn those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
5.	The teacher helped to recall the previous knowledge related to those chapters.	Physics chapter					
		Chemistry chapter					

		Biology chapter					
6.	I like the teacher's way of introducing and engaging us with the chapter overall.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
7.	The teacher facilitated discussion cum investigation of other real life examples and experiences related to the concepts of those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
8.	The facilitated discussion cum investigation of other real life examples and experiences related to the concepts of those chapters generated further interest and curiosity to learn them.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
9.	I liked the overall teacher's way used to explore the concept and it's related life experiences and examples related to those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
10.	The teacher allowed me to share my understanding developed from the discussion cum investigation of other real life examples and experiences related to the concepts of those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
11.	The teacher facilitated further understanding by providing further information sequentially based on the understanding developed from the	Physics chapter					

	discussion cum investigation of other real life examples and experiences related to the concepts of those chapters.	Chemistry chapter					
		Biology chapter					
12.	The teacher helped effectively to relate the newly learned concepts of those chapters with the previously learned concepts.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
13.	The teacher used easy to understand language for explaining those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
14.	The teacher explained all the newly introduced terms properly for those chapter?	Physics chapter					
		Chemistry chapter					
		Biology chapter					
15.	There were no gaps remaining in the explanation portion for those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
16.	I liked the overall teacher's approach to explain the concepts related to those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					

17.	The teacher encouraged us to apply the learned concepts of those chapters in different real life contexts.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
18.	I like the overall teacher's approach to elaborate the topics further and it's related life experiences and examples to solidify the understanding related to those chapters	Physics chapter					
		Chemistry chapter					
		Biology chapter					
19.	The teacher heard all the doubts from us related to those chapters and responded effectively.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
20.	The teacher asked questions during and at the end of teaching those chapters to check, identify, clear misconceptions and enhance the understanding of students.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
21.	The teacher identified the difficult areas related to the topics from those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
22.	The teacher gave further emphasis, explanation and elaborated those difficult areas from the topics related to those chapters.	Physics chapter					
		Chemistry chapter					

		Biology chapter					
23.	I liked the overall teacher's approach to evaluate the student's understanding to enhance learning for concepts related to those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					
24.	I liked the overall teaching process used for teaching concepts from those chapters.	Physics chapter					
		Chemistry chapter					
		Biology chapter					

25. According to you, how can the teaching process be more effective and interesting?