


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## Exploring the role of Verbal and Non-verbal Communication during Science Teaching

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Improving Conversations at Workplace



Dr. Divya Panjwani | Dr. Fatima Sahrish |  
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First Edition 2023

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# Exploring the Role of Verbal and Non-Verbal Communication during Science Teaching

Huma Naz

Lecturer, Faculty of Education  
Integral University, Lucknow, Uttar Pradesh

### Abstract

The effective teaching of science relies on a dynamic interplay between verbal and non-verbal communication. Verbal communication serves as the primary conduit for explaining intricate scientific concepts, fostering discussions, and engaging students in active learning. It enables teachers to articulate complex ideas, answer questions, and provide real-time clarification, promoting a deeper understanding of scientific principles. Non-verbal communication, through visual aids, demonstrations, and body language, plays a complementary role in science education. Visual reinforcement of concepts, hands-on experiments, and engaging visuals contribute to a more tangible and memorable learning experience. Teachers' enthusiasm, conveyed through non-verbal cues, creates a positive and motivating atmosphere, capturing students' attention and interest. The amalgamation of verbal and non-verbal communication is crucial for accommodating diverse learning styles, adapting to individual preferences, and ensuring a comprehensive understanding of scientific principles. By leveraging both forms of communication, educators can create inclusive, interactive, and dynamic learning environments that inspire curiosity and a lifelong appreciation for science.

**Keywords:** Verbal communication, Non-verbal communication, Science teaching

### Introduction

The balanced integration of verbal and non-verbal communication is foundational for effective science teaching and student engagement. The successful teaching of science relies on a dynamic interplay between verbal and non-verbal communication (Gostand, 1980). Verbal communication plays a central role in articulating complex scientific concepts, fostering interactive discussions, and providing immediate feedback to students. It facilitates a comprehensive understanding of scientific principles through lectures, discussions, and interactive sessions. Complementing verbal communication,