# dependent and the official Website of DepED Division of Bataan

#### DEMYSTIFYING SCIENCE: MAKING COMPLEX TERMS EASIER FOR STEM STUDENTS

by:

**Arjay A. Alarcon** *Teacher III, Justice Emilio Angeles Gancayco Memorial High School* 

Clarifying complex scientific vocabulary is essential in dismantling the barriers that students of STEM face in learning science education. Many students are easily confused by the jargon that is often characteristic of scientific disciplines, and this usually leads to a loss of interest and poor comprehension (Zukswert et al, 2019). It removes the mystery surrounding science and makes terminology and concepts clearer, which the students can understand to utilize better in practical approaches. According to Karima et al. (2022), most students face really serious difficulties with scientific terminology. Therefore, the authors recommend that complicated ideas ought to become much more accessible for non-native speakers as well as for diverse educational backgrounds. Terminologies related to science allow both ease of understanding and fostering selfesteem as well as growing a sense of fondness for the subject. Many teachers used different methodologies to help the students memorize many science terms, like using oral revalida where the students will recite in front of the teacher the terms and the meanings of different science terminologies.

However, this approach still presents significant disparities and challenges in its implementation. Traditional teaching methods are still content-based rather than understanding the terms used by students. Teachers have a problem explaining concepts without losing scientific accuracy. Many of them are not prepared or trained to change their approach to teaching. The lack of materials for various levels of learners further complicates this. These create obstacles that prevent the complete demystification of



science and make many students unable to connect with and remember these complex concepts.

To address these challenges would require focused strategies that ought to encompass teacher training programs involving simplification of jargon terminology, visual aids, and making available the glossary or material for contextual reference. To this end, technology simulation in interaction may become more helpful for understanding what is going on (Yang & Baldwin, 2020). It will demystify science, improve student engagement with meaningful learning experiences, and encourage more students to pursue higher education confidently in STEM fields. And by the use of these different strategies in teaching science terms, the student will increase their engagement in science subjects. Lastly, enhancing science vocabulary will be a great help in pursuing and finishing college with ease.

### References:

### **Dataan.**CO

Karima et al. (2022). The Use of Language Learning Strategies to Develop Learners' Vocabulary

Knowledge and Writing Proficiency The Case of Third Year Students of English inWritten Expression. People's Democratic Republic of Algeria. Ministry of HigherEducationandScientificResearch.https://www.researchgate.net/publication/366581954\_The\_Use\_

of\_Language\_Learning\_Strategies\_to\_Develop\_Learners'\_Vocabulary\_Knowledge\_and \_Writing\_Proficiency\_The\_Case\_of\_Third\_Year\_Students\_of\_English\_in\_Written\_Expre ssion\_Co-supervised\_by



# depedbataan.comPublications

Yang, D. & Baldwin, S.J. (2020). Using technology to support student learning in an integrated

STEM learning environment. International Journal of Technology in Education and Science (IJTES), 4(1), 1-11.

Zukswert et al. (2019). Identifying Troublesome Jargon in Biology: Discrepancies between

Student Performance and Perceived Understanding. CBE – Life Sciences Education18:ar6,Spring2019.https://www.researchgate.net/publication/331007888\_Identifying\_Troublesome\_Jargon\_in\_Biology\_Discrepancies\_between\_Student\_Performance\_and\_Perceived\_Understanding

# **CENTRAL CONTROL CONTR**

