

HOW TO DEAL WITH THE WRONG ANSWER OF A LEARNER: STRATEGIES FOR EFFECTIVE TEACHING AND LEARNING

by: **Jomar C. Rubio**Teacher III, Sibul Elementary School

Dealing with students' wrong answers is an important part of teaching and learning. Teachers have a big part to play in helping students understand and do better in school by figuring out and correcting these wrong answers. This piece discusses handling wrong answers in school settings to create a good learning environment.

Teachers need to look at wrong replies (Asase, 2022). Teachers must know why their students make mistakes to give them the right advice. Finding common misunderstandings and wrong answers can significantly affect how well students learn (Chen et al., 2020). When teachers know their students' most common wrong answers, they can help them improve (Chen et al., 2020). Ross (2024) also says that putting different wrong answers into groups can help you determine the mental processes that lead to creative thought.

Many ideas have been put forward for how to deal with wrong answers in a good way. For instance, the Wrong Answer Ensemble (WAE) is a new way to group wrong answers to multiple-choice questions (Kim & Fung, 2020). The Reflection Net model also helps people tell the difference between "no answer" and "wrong answer" situations in reading comprehension tasks (Wang et al., 2020). Peer talks have turned wrong answers into right ones (Yücel & Kaymak, 2022). Also, educational interventions like escape rooms and debate activities have helped students get the correct answers and improve in school (Berthod et al., 2019; Eikeland & Frøyland, 2020).

Giving and getting feedback is a key part of fixing wrong answers. It works better to give correct feedback than to replace correct replies with mistakes (Metcalfe & Eich, 2019). Punishing bad answers can lower test scores and widen the achievement gap between boys and girls (Coffman & Klinowski, 2020). Elford (2024) says that getting students to talk about and explain their answers can help them respond better.

Teachers must use multiple methods when dealing with wrong answers in school situations. Teachers should know how to look at wrong answers and determine why students respond the way they do so they can give specific help. Some things that can help students learn more are figuring out the most common wrong answers, putting misconceptions into groups, and using peer talks. By setting up sound feedback systems and encouraging joint learning, teachers can give students the tools to deal with problems and do well in school.

epedbataan.com

References:

e Official Website of DepED Division of Bataan

Asase, S. (2022). Assessing teachers' knowledge in analysing errors in mathematical word problems of ghanaian primary school pupils. Texila International Journal of Academic Research, 9(3), 29-37. https://doi.org/10.21522/tijar.2014.09.03.art004

Berthod, F., Bouchoud, L., Grossrieder, F., Falaschi, L., Senhaji, S., & Bonnabry, P. (2019). Learning good manufacturing practices in an escape room: validation of a new pedagogical tool. Journal of Oncology Pharmacy Practice, 26(4), 853-860. https://doi.org/10.1177/1078155219875504

Chen, C., Sonnert, G., Sadler, P., & Sunbury, S. (2020). The impact of high school life science teachers' subject matter knowledge and knowledge of student misconceptions on students' learning. Cbe—life Sciences Education, 19(1), ar9. https://doi.org/10.1187/cbe.19-08-0164



depedbataan.comPublications

Coffman, K. and Klinowski, D. (2020). The impact of penalties for wrong answers on the gender gap in test scores. Proceedings of the National Academy of Sciences, 117(16), 8794-8803. https://doi.org/10.1073/pnas.1920945117

Eikeland, I. and Frøyland, M. (2020). Pedagogical considerations when educators and researchers design a controversy-based educational programme in a science centre. Nordic Studies in Science Education, 16(1), 84-100. https://doi.org/10.5617/nordina.7001

Elford, D. (2024). Augmented reality meets peer instruction. Chemistry Education Research and Practice, 25(3), 833-842. https://doi.org/10.1039/d3rp00093a

Kim, H. and Fung, P. (2020). Learning to classify the wrong answers for multiple choice question answering (student abstract). Proceedings of the Aaai Conference on Artificial Intelligence, 34(10), 13843-13844. https://doi.org/10.1609/aaai.v34i10.7194

Metcalfe, J. and Eich, T. (2019). Memory and truth: correcting errors with true feedback versus overwriting correct answers with errors. Cognitive Research Principles and Implications, 4(1). https://doi.org/10.1186/s41235-019-0153-8

Ross, W. (2024). The relationship between creativity and insight: a case of the wrong answer?. The Cognitive Psychology Bulletin, 1(9), 29-36. https://doi.org/10.53841/bpscog.2024.1.9.29

Wang, X., Shou, L., Gong, M., Duan, N., & Jiang, D. (2020). No answer is better than wrong answer: a reflection model for document level machine reading comprehension.. https://doi.org/10.18653/v1/2020.findings-emnlp.370

Yücel, D. and Kaymak, B. (2022). The effect of the discussion part of the peer instruction on the students' learning levels of turkish languages (kazakhstan sample). Journal of Research in Turkic Languages, 4(2), 31-39. https://doi.org/10.34099/jrtl.422

