

Abstract

This study investigates the impact of the timing of corrective feedback on learning from mistakes. Educators and students are often afraid of making mistakes during the learning process, but mistakes are unavoidable when learning novel materials. In this research, participants learned 24 weakly related word pairs (e.g., blanket—picnic) and guessed the corresponding target before they were shown the corrective feedback immediately or at a 5-minute delay. During the final test, participants had to recall the correct target either from the cue (e.g., blanket—???) or their original guess (e.g., bed—-???), which was used to test the errors-as-mediators account, suggesting that errors lead to an additional retrieval pathway (cue→error→target) that aids learning from corrective feedback. Surprisingly, on the original guess as a cue final test condition, recall performance was similar regardless of the timing of the feedback, which is inconsistent with the errors-as-mediators account. Although the question of how people correct their mistakes while learning continues, the study concludes that immediate corrective feedback is most effective when learning from mistakes.