Empowering Chemistry Learning Through Problem-Based Learning: Determining Vitamin C in Pharmaceuticals

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Abstract

Discovering chemistry can be exciting! This study highlights how Problem-Based Learning (PBL) transforms traditional chemistry education into an engaging and meaningful experience. Students explored the determination of vitamin C in a pharmaceutical compound, taking the lead in their learning journey, collaborating in teams, and applying theory to real-world problems. The approach boosted not only their understanding and self-directed learning but also their confidence, critical thinking, and motivation. By turning the laboratory into a space of exploration and discovery, students witnessed firsthand the relevance and impact of chemistry in everyday life, making learning both fun and empowering.

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