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Geochemistry in school curricula: Reflecting the importance of critical minerals and climate change

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To provide foundational knowledge for understanding two of the most pressing global challenges today: the supply and sustainable use of critical minerals and the science behind the climate change, it is important to introduce the study of geochemistry as a part of school education. Importance of critical mineral characterization, its sources, extraction without any environmental impacts and how it is related to the global energy transition can be addressed in the school education. Geochemistry study in school helps in understanding the carbon movement between rock, soil, ocean(water) and atmosphere. It tells about carbon dioxide sequestration rate and about the factors influencing it which helps in carbon capture and storage (CCS), mineral carbonation, and monitoring greenhouse gases in air, soil, and oceans. Geochemistry for students will help them to choose this subject as career or can corelate this topic with other field for solving complex problems that span science, business, policy, and technology.