

KS3 Geology Rocks



About the programme

Students will explore the fascinating world of geology through hands-on experiments and games.

They will identify minerals using physical properties, model the rock cycle to discover how different rocks form, simulate tectonic plate movement to understand the processes that shape our planet, and explore the role of erosion and human land use in changing landscapes.

This programme helps students make meaningful connections between Earth's internal processes and life on the surface, by linking geology with climate, natural resources, and human activities.



Staffordshire
Wildlife Trust





Geology Rocks Learning activities

The day begins with an introduction to Geology and an exploration of what students already know about rocks and the Earth. Guided by our session leaders and workbooks, students then investigate a series of interactive modules:

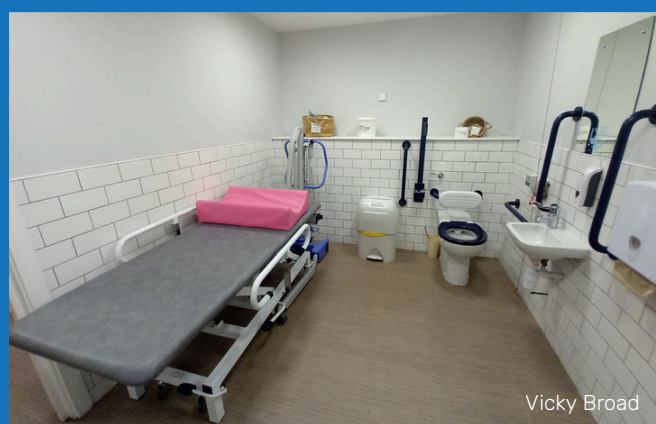
- Mineral Investigation. Test mineral samples for hardness, density, shape, and reaction with acid to identify and classify them.
- Rock Cycle. Use group activities and hands-on models to simulate weathering, erosion, heat and pressure, and discover how rocks constantly change.
- Earth's Layers & Plate Tectonics. Play the hot layers game, piece together a tectonic plates puzzle, and simulate divergent, convergent, and transform boundaries.
- Erosion and Land Use. Investigate how vegetation and land cover affect erosion, and link findings to deforestation, land management, and climate change.

Throughout the day, students are encouraged to:

- Record and share their findings
- Make connections between geology, natural resources, and sustainability
- Reflect on human impact and ways to protect landscapes and ecosystems.

Accessibility

Our Learning Hub is accessible for wheelchairs or those with limited mobility. We have child, adult, and accessible toilets. Our accessible toilet is a large space fitted out to full DDA requirements. This facility also has an adjustable bed with a powered hoist. The centre itself has gentle, flat walkways around the lakes, providing accessible routes so that everyone can enjoy the reserve,



Want to know more?

Contact our Bookings Assistant

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