

Suggestions on how to use the Joyce Country & Western Lakes geopark project region as a case study for

IRISH UNIVERSITY MODULES: University College Cork

The table below provides suggestions and ideas for teachers to use to incorporate aspects of the Joyce Country & Western Lakes geopark project within their classrooms. We want to encourage using the geopark region as an outdoor classroom, as a case study area and for the people living within it to realise what a special area it is and be proud of where they live.

We hope to design resources in conjunction with teachers, so if you are interested in working with us, please [contact us](#). We look forward to hearing from and working with you.

Please note, the curriculum information is correct as of April 2020. Only the strand units that apply to the geopark project are mentioned here.

Level: UNIVERSITY	Ideas on how to incorporate JCWL geopark with your teaching
<i>University College Cork (UCC)</i>	
<ul style="list-style-type: none"> • Geological Evolution of Ireland GL1004 • Introductory Sedimentology for non-Geologists GL2001 • Sedimentological Processes and Sedimentary Petrology GL2011 • Igneous and Metamorphic Petrology GL2012 • Easter Field Course GL2016 • Fossils as Living Organisms GL2019 • Sedimentary Environments GL3013 • Crustal Evolution of NW Britain GL3023 	<ul style="list-style-type: none"> • Geopark area as a case study as has rocks from many different ages spanning most of the geological evolution of Ireland. • Develop an activity to recognise sedimentary depositional environments e.g. in the road section from Finny – Kilbride: shallow to deep water. • Develop an activity to recognise sedimentary depositional environments e.g. in the road section from Finny – Kilbride: shallow to deep water. • Geopark area as a destination to see how some metamorphic and igneous rocks formed. • Geopark area as an alternative fieldtrip to what they offer. Includes stratigraphy, sedimentology, volcanology, structure, palaeontology and basic mapping skills. • Geopark area as a fieldtrip/ case study for module e.g. looking at trace fossils in limestone and behaviour and environment they represent. Detail of uses of trace fossils and micro fossils. Role of fossils in biostratigraphy and chronostratigraphy. • Develop an activity to recognise sedimentary depositional environments e.g. in the road section from Finny – Kilbride: shallow to deep water. • Have an Irish option for this, as the geology of geopark area is similar geology and processes to those of NW Britain (part of same continent). Igneous and metamorphic rocks, structural processes, Archaean and Proterozoic metamorphism, Caledonian magmatism, Palaeogene magmatism. Include Dalradian.



TIONSCADAL GEOPHÁIRC

**Dhúiche Sheoigheach
& Lochanna an Iarthair**

JOYCE COUNTRY & WESTERN LAKES GEOPARK PROJECT

<ul style="list-style-type: none"> • Geological Map Interpretation GL3030 • Advanced Field Geoscience Techniques GL3033 • Geology Field Project GL4030 • Igneous and Metamorphic Terrain Mapping GL6002 • Structural Geology for Mineral Exploration GL6012 • Geology of Ore Deposits GL6013 • Dissertation in Field Geology GL6018 • Field Training 1 ER2002 • Field Training 2 ER3005 	<ul style="list-style-type: none"> •Develop an activity for this module e.g. deducing geological history using the geological map, interpreting geological map, using ArcGIS/ QGIS to do an activity. •Geopark area as an alternative fieldtrip to what they offer. Includes stratigraphy, sedimentology, volcanology, structure, palaeontology and basic mapping skills. •Geopark area as an alternative fieldtrip to what is offered. Includes stratigraphy, sedimentology, volcanology, structure, palaeontology and basic mapping skills. •Geopark area as an alternative fieldtrip to what is offered. Includes stratigraphy, sedimentology, volcanology, structure, palaeontology and basic mapping skills. Concentrate on the areas with igneous and metamorphic rocks and how to use small scale structures e.g. minor folds to determine bigger events. •Geopark area as a case study for the ore deposits found in the area. Gold, Lead and Silver. Where mineralising fluids came from, why they concentrated, types of mineralisation and how mineral exploration has occurred. •Geopark area as a case study for the ore deposits found in the area. Gold, Lead and Silver. Where mineralising fluids came from, why they concentrated, types of mineralisation and how mineral exploration has occurred. •Geopark area as an alternative fieldtrip to what is offered. Includes stratigraphy, sedimentology, volcanology, structure, palaeontology and basic mapping skills. •Geopark as an alternative fieldtrip to what is offered. Develop a fieldtrip/ 'pack' for this module which includes basic field mapping skills. •Geopark as an alternative fieldtrip to what is offered. Develop a fieldtrip/ 'pack' for this module which includes basic field mapping skills.
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