

A Level Geology

Candidate Name

| Specified practical work | Date completed | Competency | | | | | Teacher / Student comments |
|--|----------------|------------|---|---|---|---|----------------------------|
| | | 1 | 2 | 3 | 4 | 5 | |
| SP1 Investigation of diagnostic properties of minerals: colour, crystal shape, cleavage, fracture, hardness, relative density, streak, lustre, reaction with cold dilute (0.5 mol dm ⁻³) hydrochloric acid in order to identify minerals | | | | | | | |
| SP2 Measurement of the density of minerals | | | | | | | |
| SP3 Application of classification systems using distinguishing characteristics to identify unknown minerals | | | | | | | |
| SP4 Production of scaled annotated scientific drawings of rock samples from hand samples using a light microscope, or hand lens observation | | | | | | | |
| SP4 Production of scaled annotated scientific drawings of rock samples from hand samples using a light microscope, or hand lens observation | | | | | | | |
| SP4 Production of scaled annotated scientific drawings of rock samples from hand samples using a light microscope, or hand lens observation | | | | | | | |
| SP5a Production of full rock description of macro and micro features from hand specimens and unfamiliar field exposures of sedimentary rocks in order to interpret component composition, colour and textures, to identify rock types and to deduce their environment of deposition | | | | | | | |
| SP5b Production of full rock description of macro and micro features from hand specimens and unfamiliar field exposures of sedimentary rocks in order to interpret component composition, colour and textures, to identify rock types and to deduce their environment of deposition | | | | | | | |

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| SP5b Production of full rock description of macro and micro features from hand specimens and unfamiliar field exposures of sedimentary rocks in order to interpret component composition, colour and textures, to identify rock types and to deduce their environment of deposition | | | | | | | |
| SP6 Construction of graphic logs using appropriate scale and symbol sets for unfamiliar geological sequences and exposures to record data relevant to an investigation | | | | | | | |
| SP6 Construction of graphic logs using appropriate scale and symbol sets for unfamiliar geological sequences and exposures to record data relevant to an investigation | | | | | | | |
| SP7 Use of photomicrographs to identify minerals and rock textures of sedimentary rocks in order to identify rock types and to deduce their environment of deposition | | | | | | | |
| SP8 Production of full rock description of macro and micro features from hand specimens and/or unfamiliar field exposures of igneous rocks in order to interpret component composition, colour and textures, to identify rock type and to deduce their cooling history | | | | | | | |
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| SP9 Use of photomicrographs to identify minerals and rock textures of igneous rocks to identify rock type and to deduce their cooling history | | | | | | | |
| SP10 Production of full rock description of macro and micro features from hand specimens and/or unfamiliar field exposures of metamorphic rocks in order to interpret component composition, colour and textures, to identify rock type and to deduce the temperature and pressure conditions of their formation | | | | | | | |
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| SP11 Use of photomicrographs to identify minerals and rock textures of metamorphic rocks to identify rock type and to deduce the temperature and pressure conditions of their formation | | | | | | | |
| SP12 Location of geological features onto a base map | | | | | | | |
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| SP13 Identification of the location of geological features in the field using six figure grid references on maps | | | | | | | |
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| SP14 Production of scaled, annotated field sketches at unfamiliar field exposures to record data relevant to an investigation | | | | | | | |

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| SP14 Production of scaled, annotated field sketches at unfamiliar field exposures to record data relevant to an investigation | | | | | | | |
| SP15 Measurement of dip and strike elements: dip angle, dip and strike directions of planar surfaces, relevant to an investigation | | | | | | | |
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| SP16 Application of classification systems using distinguishing characteristics to identify unknown fossils | | | | | | | |
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| SP17 Production of scaled, annotated scientific drawings of fossils, using a light microscope, or hand lens observation | | | | | | | |
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| SP18 Measurement of densities of representative samples of Earth layers (e.g granite, basalt) | | | | | | | |
| SP19 Investigation of the relationships between earthquake data (focal depth, magnitude and distance from plate boundaries) using data on Google Earth™ | | | | | | | |
| SP20 Investigation of contact metamorphism using the Metamorphic Aureole simulation experiment | | | | | | | |