



Geography

At Alamiyah the study of Geography is integrated within the curriculum through the Great Lessons and through the Montessori work cycle. The curriculum plan contained in this document is aimed at the 9-11 age group covering upper primary.

At Alamiyah, the Physical Geography curriculum in the upper school continues with learning in more depth about the atmosphere and other physical features. It also covers the political and economic geography and a study of cartography. The Upper curriculum progresses with a Geological study studying rocks and rock formation and the effects of the environment and weather systems upon the physical features of the World.

Geography Long Term Curriculum Plan

| Area | Topic | Recommended Age/Stage |
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| Geography Classified Nomenclature | The Planet Earth <ul style="list-style-type: none"> Position Of The Earth In Space Parts Of The Planet Earth | Age 9 - 11 Years 5 - 6 |
| | The Atmosphere Of The Earth <ul style="list-style-type: none"> Parts Of The Atmosphere Types Of Clouds Local Air Movement Global Air Movements Air Masses And Fronts | Age 9 - 11 Years 5 - 6 |
| | The Hydrosphere Of The Earth <ul style="list-style-type: none"> Parts Of The Hydrosphere Types Of Seas Types Of Glaciers Parts Of A Valley Glacier Types Of Crevasses | Age 9 - 11 Years 5 - 6 |



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| | <ul style="list-style-type: none"> • Types Of Moraines • Water Courses • Parts Of A River • The Course Of A River • Types Of River Mouths • Parts Of A River Basin • Types Of Pooled Water • Types Of Lakes | |
| | <p>The Lithosphere Of The Earth</p> <ul style="list-style-type: none"> • The Surface Of The Earth • Types Of Islands • Horizontal Configurations - The Coastlines • Types Of Low Coasts • Types Of High Coasts • Irregular Coastlines Of Emergence • Irregular Coastlines Of Submergence • Vertical Configurations • Parts Of A Mountain • Types Of Mountain Groups • Types And Parts Of Mountain Chains • Folding And Faulting • Types Of Valleys • Types Of Plains | Age 9 - 11 Years 5 - 6 |
| | <p>Igneous Activities Of The Earth</p> <ul style="list-style-type: none"> • The Volcano And Its Parts • Types Of Volcanoes • Types Of Eruptions • Forms Of Igneous Material • Fire Belts Of The Earth • Minor Igneous Features | Age 9 - 11 Years 5 - 6 |



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| <p>Landforms Of The World</p> | <p>Islands Of The World</p> <ul style="list-style-type: none"> • Islands Of The World • Islands Of North America • Islands Of South America • Islands Of Europe • Islands Of Africa • Islands Of Asia • Islands Of Australia <p>Lakes Of The World</p> <ul style="list-style-type: none"> • Lakes Of The World • Lakes Of North America • Lakes Of South America • Lakes Of Europe • Lakes Of Africa • Lakes Of Asia • Lakes Of Australia <p>Peninsulas Of The World</p> <ul style="list-style-type: none"> • Peninsulas Of The World • Peninsulas Of North America • Peninsulas Of South America • Peninsulas Of Europe • Peninsulas Of Africa • Peninsulas Of Asia • Peninsulas Of Australia <p>Gulfs Of The World</p> <ul style="list-style-type: none"> • Gulfs Of The World • Gulfs Of North America • Gulfs Of South America • Gulfs Of Europe • Gulfs Of Africa • Gulfs Of Asia • Gulfs Of Australia | <p>Age 9 - 11 Years 5 - 6</p> |
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| | <p>Isthmuses Of The World</p> <ul style="list-style-type: none"> • Isthmuses Of The World • Isthmuses Of North America • Isthmuses Of South America • Isthmuses Of Europe • Isthmuses Of Africa • Isthmuses Of Asia • Isthmuses Of Australia <p>Straits Of The World</p> <ul style="list-style-type: none"> • Straits Of The World • Straits Of North America • Straits Of South America • Straits Of Europe • Straits Of Africa • Straits Of Asia • Straits Of Australia <p>Capes Of The World</p> <ul style="list-style-type: none"> • Capes Of The World • Capes Of North America • Capes Of South America • Capes Of Europe • Capes Of Africa • Capes Of Asia • Capes Of Australia <p>Bays Of The World</p> <ul style="list-style-type: none"> • Bays Of The World • Bays Of North America • Bays Of South America • Bays Of Europe • Bays Of Africa • Bays Of Asia • Bays Of Australia | |
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| Political Geography | <ul style="list-style-type: none"> • North America: Countries And Capitals • North America: Pin Maps • North America: Research Report • Temperature Regions Of The World • Precipitation Regions Of The World • Prevailing Winds Of The World • Ocean Currents Of The World • Climate Regions Of The World • Vegetation Regions Of The World | Age 9 - 11 Years 5 - 6 |
| Economic Geography | <ul style="list-style-type: none"> • Introduction • Geography Today • Main Division Of Geographic Study • History Of Geography • Economic Geography | Age 9 - 11 Years 5 - 6 |
| Imaginary Island | <ul style="list-style-type: none"> • Fourteen Points For The Study Of A Country • Geographical Features Cards • Imaginary Island Study • Topography Of An Existing Island • Location And Climate • Advanced Imaginary Island | Age 9 - 11 Years 5 - 6 |
| Cartography | <ul style="list-style-type: none"> • Introduction • Geographic Location | |



Geology: Long Term Curriculum Plan

| Area | Topic | Recommended Age/Stage |
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| Introduction | <ul style="list-style-type: none"> • The Story Of Life On Earth • Introduction | Age 9 - 11 Years 5 - 6 |
| The Formation Of The Earth | <ul style="list-style-type: none"> • The Formation Of The Universe • Stellar Nucleosynthesis • The Planets • Planet Report • Layers Of The Earth • The Layers Of The Earth | Age 9 - 11 Years 5 - 6 |
| Rocks And Minerals | <ul style="list-style-type: none"> • The Composition Of Matter • Chemical Bonding • Atomic Mass • The Structure Of Minerals • Physical Properties Of Minerals • Mineral Groups • Silicates • Nonsilicate Minerals • Activities • Definitions • Common Minerals | Age 9 - 11 Years 5 - 6 |
| Igneous Rocks | <ul style="list-style-type: none"> • Introduction • Textures Of Igneous Rocks • Crystallization Sequence • Bowen's Reaction Series • Plutonic Igneous Rocks • Volcanic Igneous Rocks • Parts Of The Volcano • Parts Of The Volcano | Age 9 - 11 Years 5 - 6 |



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| | <ul style="list-style-type: none"> • Zones Of Volcanism • Activities • Definitions • Igneous Rocks • Volcanic Igneous Rocks • Rhyolite • Obsidian • Pumice • Andesite • Basalt • Olivine Basalt • Porphyritic Basalt • Basalt Flow Top • Trachyte • Tuff • Volcanic Breccia • Plutonic Igneous Rocks • Granite • Granodiorite • Diorite • Gabbro • Syenite • Peridotite • Carbonatite | |
| Weathering And Erosion | <ul style="list-style-type: none"> • Introduction • Mechanical Weathering • Chemical Weathering • Soil • Activities • Definitions | Age 9 - 11 Years 5 - 6 |



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| Sedimentary Rocks | <ul style="list-style-type: none"> ● Introduction ● Detrital Sedimentary Rocks ● Chemical Sedimentary Rocks ● Formation Of Sediment Into Rock ● Fossils ● Energy Resources From Sedimentary Rocks ● Activities ● Definitions ● Sedimentary Rocks ● Conglomerate ● Breccia ● Sandstone ● Siltstone ● Shale ● Mudstone ● Mudcracks ● Limestone ● Travertine ● Dolomite ● Chert ● Evaporites ● Gypsum ● Fossils ● Diatomite | Age 9 - 11 Years 5 - 6 |
| Metamorphic Rocks | <ul style="list-style-type: none"> ● Introduction ● Agents Of Metamorphism ● Textures Of Metamorphic Rocks ● Common Metamorphic Rocks ● Foliated Rocks ● Metamorphic Grade And Minerals ● Non-foliated Rocks ● Metamorphism And Faults | Age 9 - 11 Years 5 - 6 |



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| | <ul style="list-style-type: none"> ● Contact Metamorphism ● Activities ● Definitions ● Metamorphic Rocks ● Slate ● Phyllite ● Schist ● Gneiss ● Amphibolite ● Marble ● Quartzite ● Metaconglomerate ● Hornfels ● Serpentine ● Fault Breccia Or Mylonite | |
| Mass Wasting | <ul style="list-style-type: none"> ● Introduction ● Classification ● Activities ● Definitions | Age 9 - 11 Years 5 - 6 |
| The Work Of Water | <ul style="list-style-type: none"> ● The Hydrologic Cycle ● Running Water ● Deposition Of Sediments ● Groundwater ● Activities ● Definitions | Age 9 - 11 Years 5 - 6 |
| Glaciers And Glaciation | <ul style="list-style-type: none"> ● Introduction ● Glacial Landforms ● Glacial Deposits ● Glacial Theory And ● The Ice Age | Age 9 - 11 Years 5 - 6 |



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| | <ul style="list-style-type: none"> • Activities • Definitions | |
| Deserts: The Work Of The Wind | <ul style="list-style-type: none"> • Introduction • The Work Of Wind • Wind Erosion • Wind Deposits • Desert Landscape • Activities • Definitions • Desert Habitat • Desert Habitat • Geography • Geology And Functional Geography • Botany • Zoology • People Of Desert Lands • Art/Architecture • Music • Literature And Writing | Age 9 - 11 Years 5 - 6 |
| The Work Of Waves | <ul style="list-style-type: none"> • Introduction • Wave Erosion • Wave Refraction • Shoreline Features • Types Of Coasts • Tides • Activities • Definitions | Age 9 - 11 Years 5 - 6 |
| Earthquakes | <ul style="list-style-type: none"> • Introduction • Seismology • Earthquake Magnitude | Age 9 - 11 Years 5 - 6 |



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| | <ul style="list-style-type: none"> • Tsunamis • Landslides • Activities • Definitions | |
| Plate Tectonics | <ul style="list-style-type: none"> • Introduction • Plate Tectonics • Plate Boundaries • The Driving Mechanism • Activities • Definitions | Age 9 - 11 Years 5 - 6 |
| The Oceans | <ul style="list-style-type: none"> • Introduction • Continental Margins • Submarine Canyons • Deep-ocean Basin • Sea-floor Sediments • Mid-ocean Ridges • Activities • Definitions | Age 9 - 11 Years 5 - 6 |
| Mountain Building | <ul style="list-style-type: none"> • Introduction • Crustal Uplift • Rock Deformation • Mountain Types • The Geosyncline Concept • Orogenesis At Plate Boundaries • Definitions | Age 9 - 11 Years 5 - 6 |