

Curriculum links: Activities, Experiment, Walks, Caves & Adventure Games

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| Title | Activity | Brief Description | Curriculum Link |
|--|--|--|---|
| <p>Waitomo Discovery Centre Visit</p> <p>Waitomo Walks with Worksheets</p> <p>(Walks range from 30 mins to 1¹/₂ hrs). Handouts available for directed Learning</p> | <p><i>Education Room Talk</i></p> <p><i>Activities within Discovery Centre</i></p> <p><i>Inquiry based experiential Lights out</i></p> <p><i>Ruakuri Natural Tunnel</i></p> <p><i>Karst Landscapes</i></p> <p><i>Discover Waitomo</i></p> <p><i>Opapaka Pa site and bush walk</i></p> | <p>Health and Physical Education: L2-5 Healthy Communities and Environments, Personal Health and Physical Development.</p> <p>Social Studies: L2-5 Identity, Culture and Organisation Place and Environment Levels Continuity and Change, Economic World Levels.</p> | <p>Nature of sciences: L2-5 Investigating in science Understanding about science</p> <p>Science: Living world L2-5 Ecology Life Processes</p> <p>Planet earth & beyond: L2-5 Earth systems Interacting systems</p> |
| <p>Adventure Activities Caves and Ad Games</p> | <p><i>Commercial caves (5 + trips)</i></p> <p><i>Wild cave options</i></p> <p><i>Huhunui</i></p> <p><i>Downstream</i></p> <p><i>Zweilholen</i></p> <p><i>Stubbs farm adventure combo</i></p> <p><i>Abseil</i></p> <p><i>Cave (Mangapohue, Max)</i></p> <p><i>Covenant</i></p> <p><i>Team Building and adventure games</i></p> <p><i>Mini Quest</i></p> <p><i>Super Quest</i></p> | <p>Sci NoS Investigate Models, Images, and Observations The Shaping of our caves – Causes and effects of weathering and erosion River catchments are an important part of the water cycle.</p> | <p>Health & PE: Personal health and physical development A3 safety manage Movement concepts and motor skills L2-7 Positive attitudes L3-L7 Science and Tech. L3-6 Challenges and social and cultural factors L3-4 Health & PE Relationships with other people Relationships L3-4 Interpersonal skills L2-6</p> |
| <p>Limestone Walks</p> | <p><i>Visiting the underground landscape</i></p> <p><i>Discovery Limestone and karst Walk</i></p> <p><i>Ruakuri Resources</i></p> | <p>Observe and explain the process of karst</p> <p>PEB Waterways contribute to both rapid and gradual geological changes that shape the land. How Rivers and Streams work in limestone</p> | <p>Science: Living world Planet earth and beyond: Earth systems Nature of sciences: Investigating in science Health & PE: Personal health and physical development Social sciences: Place and environment</p> |

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|--|---|---|--|
| Limestone A Dissolving rock | <i>Dissolving Rock</i> <i>Testing Rocks for limestone content</i> <i>Purity of limestone</i> | Science Material World L1-4 Properties and changes of matter Chemistry and Society | Planet earth & beyond: L2-5 Earth systems Interacting systems |
| Limestone A living sedimentary Rock | <i>Creating graded beds</i> <i>Classy Conglomerate rock</i> <i>To make the best concrete</i> | Science Material World L2-4 Properties and changes of matter (compare concrete to limestone types) Chemistry and Society (Use this knowledge to look at types of concrete) | Planet earth & beyond: L2-5 Earth systems Interacting systems |
| Limestone What is dissolving | <i>What dissolves in what</i> <i>Where did they go</i> <i>Thirst quencher</i> <i>Coffee break</i> <i>Observe dissolve salt and</i> <i>Dissolve the class</i> | Science Material World L1-4 Properties and changes of matter Chemistry and Society | |
| Limestone Chemistry of limestone | <i>Experiments with Carbon Dioxide</i> <i>Limewater test for CO₂</i> | Sci MAT Chemistry and society Find out about the uses of limestone materials and relate these to their observed properties. | Sci MAT Properties and changes of matter Observe, describe, and compare physical and chemical properties of limestone and its change. (Dissolving and reforming into crystals). |
| Karst: How to make Caves and Sinkholes | <i>Creating a karst Landscape</i> <i>Making a sugar cave</i> <i>Sinkholes in a cup</i> | Sci NoS Understand features of a cave system and cave formation and passage processes. How are caves formed? Why is Waitomo Karst World unique? | Sci PEB Earth cycle of dissolving limestone and sinkhole forming. Sci PEB Understand the cycles of surface and underground change over time. Sci PEB The interaction of weathering and erosion processes to produce recognisable landforms |

[Limestone](#)
[How to make Caves and Crystals](#)

Use models to understand crystals
Make your own crystal garden
Make your own crystals

Sci NoS

Describe how water makes caves and cave formations/crystals out of Limestone. (NoS, Understanding)

Use models to explore the way in which salt and sugar dissolve and recrystallize. (NoS, Investigating)

Sci PEB

Earth's systems. Changes to surface limestone results in changes to cave crystals. (Speleothems).

Sci MAT

Concept of Carbon Dioxide exchange and carbonic acid dissolving action

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| Fossils and Subfossils | <i>Make your own Fossil castings</i> <i>Fossil Footprints</i> <i>GNS Finding Fossils</i> | <u>Sci NoS L2+</u> Use models to explore how scientists can explore change over time to living things | <u>Living world</u> Life processes.L1-2 To explain how some living things from the past are now extinct |
| Cave maps and mapping | <i>Huhunui cave map exercise</i> <i>Measure and map a cave</i> | <u>Geometry and measurement L4+</u> L4 Measurement L4 Position and orientation Communicate and interpret locations and directions, using compass directions, distances, and grid references. | L4 Shape Identify classes of two- and three-dimensional shapes by their geometric properties. Relate three-dimensional models to two-dimensional representations, and vice versa. |
| Limestone Industrial: uses of and applications | <i>Chemical reactions of limestone</i> <i>Heating limestone</i> <i>Adding Water to lime</i> | <u>Sci Chemistry and society</u> Find out about the uses of limestone materials and relate these to their observed properties. | |
| Rumbling Gut – Cave Rescue | <i>Rumbling Gut ‘ Real life application Unit of study</i> | STEM (Sci, Tech, Math) Focused unit of study | PE and Health Science and Tech. L3-6 |

