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| Geometry is the study of shapes, sizes, patterns, and positions. It occurs in all cultures, through at least one of these human activities: |
| 1. Building and structures – building or repairing a house, laying out a garden, making a kite. |
| 1. Machines and motion – dissembling and reassembling a motor, riding a bike, sawing a board in half, swinging, seeing how pieces fit together. |
| 1. Navigating and stargazing – observing Matariki, planning travel, using maps. |
| 1. Art and patterns – designs, symmetries, representations, motifs. |
| 1. Measurement – how big is it? How far is it? |

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| Examples of human activities | | | | | |
| Culture | Building and structures | Machines and motion | Navigating and stargazing | Art and patterns | Measurement |
| Māori | Building a marae  Building a waka  Weight, height, depth etc. | Riding in a waka – paddling/ timing for motion | How Māori navigated using the stars to get to Aotearoa New Zealand  Matariki | Tukutuku panels  Māori carvings | Using the thumb and arm to measure length  Harakeke − to make rope to measure length |
| What jobs need to use knowledge about geometry? | Architect  Boat builder | Fabrication engineer  Lift technician | Astrophysics/ astronomer  Scientist  Teacher | Artist  Carver | Carpenter  Baker  Chef  Professional sportsperson |

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