# Young Designers: Location and Transformation

Curriculum Content Descriptions

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| **Level 4** | **Level 5** | **Level 6** | **Stages that address the content** |
| **Mathematics: Measurement and Geometry** | | | |
|  | Connect three-dimensional objects with their nets and other two-dimensional representations [(VCMMG198)](https://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCMMG198) |  | * Architectural Designs |
| Use simple scales, legends and directions to interpret information contained in basic maps [(VCMMG172)](https://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCMMG172) | Use a grid reference system to describe locations. Describe routes using landmarks and directional language [(VCMMG199)](https://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCMMG199) |  | * Urban Designs |
| Create symmetrical patterns, pictures and shapes with and without digital technologies [(VCMMG173)](https://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCMMG173) | Describe translations, reflections and rotations of two-dimensional shapes. Identify line and rotational symmetries [(VCMMG200)](https://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCMMG200) | Investigate the effect of combinations of transformations on simple and composite shapes, including creating tessellations, with and without the use of digital technologies [(VCMMG229)](https://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCMMG229) | * Architectural Designs * Exterior Designs * Interior Designs * Interpreting Designs |
|  | Apply the enlargement transformation to familiar two dimensional shapes and explore the properties of the resulting image compared with the original [(VCMMG201)](https://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCMMG201) |  | * Interior Designs |
| **Mathematics: Patterns and Algebra** | | | |
|  | Follow a mathematical algorithm involving branching and repetition (iteration) [(VCMNA194)](https://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCMNA194) |  | * Urban Designs |
| **Critical and Creative Thinking** | | | |
|  | Consider the importance of giving reasons and evidence and how the strength of these can be evaluated ([VCCCTR025](https://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCCCTR025)) | | * Architectural Designs |
| **Digital Technologies** | | | |
|  | Design, modify and follow simple algorithms represented diagrammatically and in English, involving sequences of steps, branching, and iteration [(VCDTCD032)](https://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCDTCD032) | | * Urban Designs |

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