Shape Up develops numeracy knowledge, skills and confidence. It provides students with the opportunity to develop a sophisticated understanding of shape and measurement and allows for the development of applying rules through a design challenge.

Shape Up is a UNIFY Project for students in Year 4-5-6. It is available in Round 2 and Round 3. Schools can include students from one year level or form a composite group across Year 4-5-6.

The target group is students who would enjoy and benefit from extension in shape and measurement through “life-like” design activities. Many schools use this project as part of their extension program for high achieving or gifted students. It can also be used as a tool to engage students who are coasting and may respond to mathematical activities and design challenges.

**Content & Assessment Guide**

<table>
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<tr>
<th>Week</th>
<th>Lesson Focus</th>
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| 1    | Project Introduction, Technology Introduction  
      Introduction to the project content and web conferencing technology. |
| 2    | IMPACT and Introduction to Shape and Measurement  
      Introduction to IMPACT workflow via an introduction to shape and measurement. eLearn tour. |
| 3    | Pre-assessment  
      Pre-assessment to be completed on eLearn. |
| 4    | Perimeter  
      Extend understanding of perimeter by introducing rules through the application of a design challenge. |
| 5    | Area  
      Understand the relationship between area and perimeter. Extend understanding by introducing rules through the application of a design challenge. |
| 6    | Volume of prisms  
      Understand the relationship between area and finding the volume of an object. Extend understanding by introducing rules through the application of volume in the continued design challenge. |
| 7    | Spaced Learning  
      Incorporate our recent understanding to build design challenge (Mid Assessment, mathematical word problems) |
| 8    | Properties of a Circle  
      Properties of a circle. Identify and understand the area of a circle. Apply through the continued design challenge. |
| 9    | Properties and structures of a Cylinder  
      Understand the relationship between area of a circle and finding the capacity of cylinders. Extend understanding through the application of capacity in the continued design challenge. |
| 10   | Spaced Learning  
      Review of Shape and Measurement understanding. End Assessment, mathematical word problems. Calculating component perimeter/area/volume and capacity to complete the design challenge. |
| 11   | Post-assessment  
      To be advised. |
| 12   | Where to From Here  
      Review, consolidate and extend on project learning. Celebrate success. |

**NB: This is a guide only – there may be minor changes.**

**Key points**

- Students participate in 1 x 60-70 min web conference per week and access online extension activities any time.
- Students connect with university and industry representatives via a special online event each round, including design representatives from the School of Mathematics and Physics - University of Queensland.

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“I loved Shape Up especially doing the planning portfolio. I learned more about shapes and how to calculate and the measurements of shapes and objects. I am better at designing.”

Primary Student – NC Region  
UNIFY – Shape Up 2014

“I really enjoyed shape up especially all the funny things, and I’m better at maths for example 3D objects. I know the area, base, width and length of a prism. It makes me proud because I was chosen for it.”

Primary Student – DDSW Region  
UNIFY – Shape Up 2014

“I believe this project is a great way for young children to express their ideas of how to work out challenging maths equations. I had a great time working with other kids and listening to the way they worked around things.”

Primary Student – CQ Region  
UNIFY – Shape Up 2014