

Year 9 Math  
Measurement work requirements [1st edn]

Name:

*It might be good to check understanding of 5A to 5C*

| Topic                                                                                                                                                                                                    | Knowledge                         | Skill                                                      | Ability                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------|
| 5D Composite Shapes (p. 311)<br><b>Learning Goal:</b> analyse shapes that are made up of smaller shapes<br><b>Success Criteria:</b> calculated area and perimeter of range of composite shapes           | 3 (a,b,e)                         | 3 (d, e, f),<br>4 (a,c,f), 5 (a,c,e),<br>7 (a,c,d), 10 (a) | 5 (b,d,e), 5 (f),<br>7 (b,e,f,g,h,i), 8, 9,<br>6 (a,c,e,f), 10 (b,c), 13*, 16 |
| 5E Surface area of Prisms and Pyramids (p. 317)<br><b>Learning Goal:</b> calculate surface area of 'simple' objects<br><b>Success Criteria:</b> calculated surface areas of objects, by visualising nets | 3 (a,b,d,f), 4                    | 5 (a,b,e), 6                                               | 7,8,9                                                                         |
| 5G Volume of a Prism (p. 330)<br><b>Learning Goal:</b> calculate volumes of prism-like objects<br><b>Success Criteria:</b> calculated volumes of prism-like objects                                      | 3 (a,c,e,g,i,k),<br>5 (a,c,e,g,i) | 7 (a,c), 6 (a,c),<br>12 (a,b,c)                            | 8 (a,c), 9-11, 12 (d,e,f),<br>13 (a,c), 16,                                   |

Part 2- Cylinders:

| Topic                                                                                                                                                                              | Knowledge | Skill        | Ability                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|-------------------------------------------------|
| 5F Surface area of a cylinder (p. 323)<br><b>Learning Goal:</b> calculate volumes of 'prisms' that have circular faces<br><b>Success Criteria:</b> calculated volumes of cylinders |           | 3,4, 6       | 5, 7 (a,c,e,g,i), 8, 9,<br>13 (a,c)             |
| 5H Volume of a cylinder (p. 336)<br><b>Learning Goal:</b> calculated volumes of cylinders<br><b>Success Criteria:</b> calculated volumes of cylinders                              |           | 4, 5 (a,c,e) | 6-8, 9 (a,c,e,f),<br>11 (a,c,e,f), 13 (a,c,e,f) |