

| Week | Topic/Objectives | Strategies | Activities | Resources | Websites |
|------------------|---|--|-------------------------------|---|---|
| Term 4 Week 1 | <p>Chapter 15 Volume And Surface Areas Of Solids</p> <p>15.1–15.2 Volumes and Surface Areas of a Cube, a Cuboid and a Prism</p> <ul style="list-style-type: none"> • sketch cubes, cuboids, prisms and cylinders • use nets to visualise their surface areas • find the volumes and surface areas of cubes, cuboids and prisms | <p>Guiding students to form solid models from their nets so that they can visualise their surface areas and sketch the diagrams of the solids</p> <p>Deriving the formulae of volumes and surface areas of cube, cuboid and prism intuitively</p> <p>Demonstrating the applications of the above formulae</p> | <p>p.127 Class Activity 1</p> | <p>p.127–132 Textbook</p> <p>p.133–140 Textbook</p> <p>E-book</p> <p>Teacher’s Guide</p> <p>http://www.mathsnet.net/geometry/solid/nets.html</p> | <p>http://lgfl.skool.co.uk/viewdetails_ks3.aspx?id=551</p> <p>http://www.bbc.co.uk/schools/gcsebitesize/maths/activities/volume_cuboids.shtml</p> <p>http://en.wikipedia.org/wiki/Prism_%28geometry%29</p> <p>http://www.shodor.org/interactivate/activities/SurfaceAreaAndVolume/</p> <p>http://argyll.epsb.ca/freed/math8/strand3/3206.htm</p> <p>http://argyll.epsb.ca/freed/math8/strand3/3207.htm</p> |
| Term 4 Week 2 | <p>15.3 – 15.4 Volumes and Surface Areas of a Cylinder and Composite Solids</p> <ul style="list-style-type: none"> • find the volumes and surface areas of cylinders • convert between cm^2 and m^2, and between cm^3 and m^3 • solve word problems involving volumes and surface areas of composite solids of prisms and cylinders | <p>Describing the rationale to get the formulae for the volume and surface area of a cylinder</p> <p>Illustrating with examples the conversion between cm^2 and m^2, and between cm^3 and m^3</p> <p>Building up the skills in finding the volumes and surface areas of composite solids of prisms and cylinders</p> | | <p>p.140–146 Textbook</p> <p>p.147–153 Textbook</p> <p>E-book</p> <p>Teacher’s Guide</p> | <p>http://www.mathsisfun.com/geometry/cylinder.html</p> <p>http://argyll.epsb.ca/freed/math8/strand3/3206.htm</p> <p>http://argyll.epsb.ca/freed/math8/strand3/3207.htm</p> |