

# Area of Experience: Mathematical Education

## Maths

At Junior Certificate level the student can:

- |  |  |
|--|--|
| <b>1 Use of Number</b>   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Apply the knowledge and skills necessary to perform mathematical calculations  |  |
| <b>2 Sets, Relations and Charts</b>  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Interpret and draw basic statistical charts and sets   |  |
| <b>3 Perimeter, Area and Volume</b>  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Calculate perimeter, area and volume of given shapes   |  |
| <b>4 Money</b>   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Apply the knowledge and skills needed to manage money in daily life  |  |
| <b>5 Use of Calculator</b>   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Apply the knowledge and skills necessary to perform basic operations using a calculator                                      |  |
| <b>6 Use of Number with Calculator</b>   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Apply the knowledge and skills necessary to perform mathematical calculations  |  |
| <b>7 Graphs, Constructions and Transformations</b>   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Apply the knowledge and skills required to sketch graphs and transformations and to perform basics constructions in geometry |  |
| <b>8 Time, Speed and Scale</b>   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Demonstrate and apply an understanding of time, speed and scale  |  |
| <b>9 Knowledge and Application of Geometry</b>   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Apply the knowledge and skills necessary to perform specified geometrical operations   |  |
| <b>10 Knowledge and Application of Algebra</b>   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Apply the knowledge and skills necessary to perform specified operations in algebra  |  |
| <b>11 Circle, Cylinder and Sphere</b>  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Calculate the perimeter, area and volume of curved shapes  |  |
| <b>12 Trigonometry</b>   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Use trigonometry to solve problems   |  |
| <b>13 Sets and Statistics</b>  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Draw and interpret sets and statistics   |  |
| <b>14 Knowledge and Application of Geometry 2</b>  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Perform additional operations in Geometry  |  |
| <b>15 Knowledge and Application of Geometry 3</b>  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Perform further operations in Geometry   |  |
| <b>16 Quadratic and Simultaneous Equations</b>   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Solve quadratic and simultaneous equations and simplify algebraic fractions  |  |
| <b>17 Factorisation, Inequalities and Equations</b>  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Factorise, graph and solve inequalities and solve more challenging equations in Algebra                                      |  |

**NOTE:** Use of a scientific non-programmable calculator is permitted

Work begun  | Work in progress  | Work completed