**Personalised Learning Checklist**

Subject: A-Level Mathematics

Year group: 12 - Pure

Dear Student,

During the academy closure you have been set a number of tasks. The list below is the learning you should have completed. Your teacher will use the list to check your progress during this time. It may be used for short quizzes, mini assessments or homework. Where there are gaps your lessons will focus on improving your knowledge and understanding.

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| Objective | My personal RAG rating (Red- do not understand, Amber- some understanding, Green- I am confident) | Teacher RAG rating |
| 9.4 Area of triangle A=1/2absinC | RED | AMBER | GREEN |  |
| 9.5 Graphs of sin, cos and tan | RED | AMBER | GREEN |  |
| 9.6 Transforming trig graphs | RED | AMBER | GREEN |  |
| 10.2 Exact trig ratios | RED | AMBER | GREEN |  |
| 10.3 Trig Identities | RED | AMBER | GREEN |  |
| 10.4 Simple trig equations | RED | AMBER | GREEN |  |
| 10.5 Harder trig equations | RED | AMBER | GREEN |  |
| 10.6 Equations and Identities | RED | AMBER | GREEN |  |
| Mixed Trigonometry | RED | AMBER | GREEN |  |
| 11.1 11.2 Vectors | RED | AMBER | GREEN |  |
| 11.3 Vectors magnitude/direction | RED | AMBER | GREEN |  |
| 11.4 Position Vectors | RED | AMBER | GREEN |  |
| 11.5 Solving geometric problems | RED | AMBER | GREEN |  |
| 11.6 Modelling with vectors  | RED | AMBER | GREEN |  |
| 12.3 Differentiation | RED | AMBER | GREEN |  |
| 12.4 12.5 Differentiate quadratics | RED | AMBER | GREEN |  |
| 12.6 Gradients, tangents, normals | RED | AMBER | GREEN |  |
| 12.7 Increase/decrease functions | RED | AMBER | GREEN |  |
| 12.8 Second Order derivatives | RED | AMBER | GREEN |  |
| 12.9 Stationary points | RED | AMBER | GREEN |  |
| 12.10 Sketching gradient function | RED | AMBER | GREEN |  |
| 12.11 Model with differentiation | RED | AMBER | GREEN |  |
| 13.1 Integrating x to the power n | RED | AMBER | GREEN |  |