| Teacher: TB | Date: 26/01/15 | Class: 1 | TBE |  | Level: A2 FM |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Topic: The Ellipse | Reference to scheme of work: FP3 Chapter 4 |  |  |  |  |
| Big Question/s: |  |  |  |  |  |
| What is the ellipse? |  |  |  |  |  |
| Learning objective(s): |  |  |  |  |  |
| Students to appreciate the importance of the ellipse and to be confident with the algebraic manipulations required to answer exam questions on this topic. |  |  |  |  |  |
| Learning outcomes: By the end of the lesson: |  |  |  |  |  |
| LAPs | MAPs |  | HAPs |  |  |
| Know the parametric and Cartesian equations of the ellipse and apply them in simple situations. | Find tangents and normal to the ellipse. |  | Prove geometric properties of the ellipse using their knowledge. |  |  |
| Key words: Ellipse, focus, directrix, normal, tangent, conic section. |  |  |  |  |  |
| Homework: Exercise 2A and 2B | Date set:26/01/15 |  | Due in:02/02/15 |  |  |
| Engagement: |  |  |  | Differentiation/LSA use: |  |
| Students to have watched the video I made using ExplainEverything about the Ellipse <br> https://www.youtube.com/watch?v=q33yZPay7UU Students also have access to the two Geogebra applets on my webpage: <br> http://ifem.co.uk/geogebra/trammel_construction.html and http://ifem.co.uk/geogebra/the ellipse.html. |  |  |  | Students can re-watch any points they are unsure on. |  |
| Learning activities (Assessment opportunities): |  |  |  |  |  |

$\left.\begin{array}{l|l}\hline \text { 09:05-09:35ish - Feedback on Mock and response to feedback. } \\ \text { Students compare their exam with the mark } \\ \text { scheme and read my feedback. They then work on } \\ \text { the questions that I have selected to target the } \\ \text { gaps in their knowledge.. }\end{array} \begin{array}{l}\text { Students have 3 exam } \\ \text { questions } \\ \text { differentiated by their } \\ \text { performance on the } \\ \text { mock. Topics chosen for } \\ \text { the individual. }\end{array}\right\}$

