**Mathematics for A-level Science**

**Plotting equations lesson plan**

Description: A 15-minute lesson to revise plotting equations from Mathematics for application to A-level Science.

Required materials: Project PowerPoint, copies of worksheet, rulers, graphical paper.

Vocabulary: Plot, Graph, Line, Linear, Relationship.

Learning objectives:

1. Students will be able to understand how to represent straight lines graphically.
2. Students will be able to represent applied linear relationships graphically.
3. Students will be able to understand coordinates, and a table of values.

Key questions:

* How can we represent a straight line graphically?
* How do we plot equations?

Proposed structure:

* Encourage students to revise the premise that a linear equation is a relationship, and that we can express that relationship using a graph.
* This is an opportunity for some students to revise coordinates, and substituting values into equations and should be done carefully.
* This lesson focuses primarily on linear relationships, but could be extended to plotting any equation.
* Work through the supplied examples before letting students begin the worksheet.

**Answers to the questions on the worksheet are available on** [**e-AQA**](https://signon.aqa.org.uk/sso/jsp/login.jsp?site2pstoretoken=v1.4~AF33DB4F~4A81154507A0B7085D7798809964E8E4E23D4C788ABE0516552B12E951ED249DAB2AE4A2F10EF9C457804AF2944B7D40FF6725C56462AE4475F1F047DA2CD9DC2A9D8D58E8D16F6199E2496E2EAA6C2A2DE730254F0E6AD1F59ED726CF75E8237EFE35DA33590BBF70CF4428FE626076F4DB25AD50C59966AB4A9371F54A7A7CF7CA67B6E51CE708C7D61FE333E281C177B0091AB34583332E9341F2C7C20B3E2AF07674A908FBBF436D471A289A961295E7B001470DECB6&p_error_code=&p_submit_url=https%3A%2F%2Fsignon.aqa.org.uk%2Fsso%2Fauth&p_cancel_url=https%3A%2F%2Fextranet.aqa.org.uk&ssousername=) **in the Secure Key Materials section.**