**Mathematics for A-level Science**

**Ratio lesson plan**

Description: A 15-minute lesson to revise ratios from Mathematics for application to

A-level Science.

Required materials: Project PowerPoint, copies of worksheet.

Vocabulary: Ratio, Fraction, Scaling.

Learning objectives:

1. Students will be able to understand and explain what a ratio is.
2. Students will be able to scale ratios.
3. Students will be able to write ratios as fractions.
4. Students will be able to solve applied questions involving ratios.

Key questions:

* What is a ratio?
* How do we use ratios?

Proposed structure:

* Begin with a few examples of what a ratios and ask students why ratios could be useful.
* Explore the benefits of writing a ratio in simplified form, and in a scaled form including where the ratio could be written as a fraction.
* Allow students to work through the example GCSE questions before moving on to 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.**