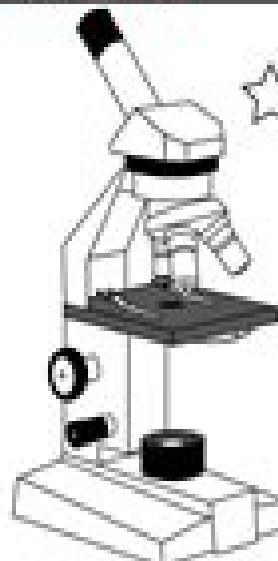
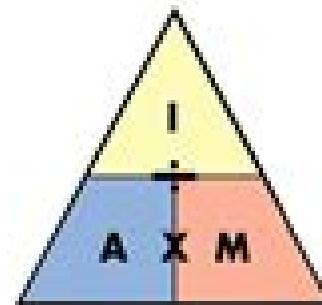


# CALCULATING MAGNIFICATION



The 'I AM' triangle is a great way to remember the formula for calculating magnification.



$$\text{Magnification} = \text{Image size} \div \text{Actual size}$$

The formula can be rearranged. Complete the correct rearrangements below:

$$\text{Actual size} = \frac{\text{image}}{\text{magnification}}$$

$$\text{Image size} = \text{actual} \times \text{magnification}$$

## Converting Units

When studying very small structures, such as inside cells, appropriate units need to be used.

Micrometers,  $\mu\text{m}$ , are the units used. There are  $1000 \mu\text{m}$  in 1 mm.

Convert the following into micrometers:

$$1. 3\text{mm} = 3000 \mu\text{m}$$

$$2. 0.2\text{mm} = 200 \mu\text{m}$$

$$3. 0.008\text{mm} = 8 \mu\text{m}$$

Convert the following into millimetres:

$$1. 1.5 \mu\text{m} = 0.0015 \text{mm}$$

$$2. 0.5 \mu\text{m} = 0.0005 \text{mm}$$

$$3. 37.5 \mu\text{m} = 0.037 \text{mm}$$



Answer the following questions (show your working)

1. The length of the drawing of a worm is shown on the diagram. The actual length of the worm is 10mm.

Calculate the magnification of the drawing.



$$50 / 10$$

x 5

2. A student makes a drawing of an onion cell, the width of the cell drawn is 110mm. The actual width of the cell is 250  $\mu\text{m}$ .

Calculate the magnification of the drawing.

$$110\text{mm} = 110,000 \mu\text{m}$$

$$110000 / 250$$

x 440

3. A student draws a diagram of a mitochondrion. The diagram has a magnification of  $\times 15000$ . The diagram is 75mm long.

What is the actual size of the mitochondrion, in  $\mu\text{m}$ ?

$$75 / 15000 = 0.005 \text{mm}$$

X 1000 to convert to  $\mu\text{m}$

5  $\mu\text{m}$

4. A student draws a diagram of a cheek cell with a width of 40mm. The actual width of the cell is 25  $\mu\text{m}$ .

What is the magnification of the drawing?

$$40\text{mm} = 40,000 \mu\text{m}$$

$$40000 / 25$$

x 1600

# Answers Magnification Size Biology

**Adam Boxer, Philippa Gardom Hulme, Jo  
Locke, Alom Shaha, Jessica Walmsley**

## **Answers Magnification Size Biology:**

Cambridge IGCSE® Biology Coursebook with CD-ROM Mary Jones, Geoff Jones, 2014-07-31 This edition of our successful series to support the Cambridge IGCSE Biology syllabus 0610 is fully updated for the revised syllabus for first examination from 2016 Written by an experienced teacher and examiner Cambridge IGCSE Biology Coursebook with CD ROM gives comprehensive and accessible coverage of the syllabus content Suggestions for practical activities are included designed to help develop the required experimental skills with full guidance included on the CD ROM Study tips throughout the text exam style questions at the end of each chapter and a host of revision and practice material on the CD ROM are designed to help students prepare for their examinations Answers to the exam style questions in the Coursebook are provided on the CD ROM A-Level Biology for AQA: Year 1 & 2 Student Book CGP Books, 2020-09-29 This comprehensive CGP student book covers both years AQA A Level Biology It contains in depth accessible notes explaining every topic supported by clear diagrams photographs tips and worked examples To test students knowledge and understanding there are practice questions and exam style questions throughout the book with complete answers included There s also detailed guidance on Maths Skills Practical Investigations and indispensable advice for success in the final exams If you prefer separate CGP student books are available for Year 1 9781782943198 and Year 2 9781782943242 of AQA A Level Biology *Biology*, 1980

Biology Kenneth Raymond Miller, Joseph S. Levine, 1995 AQA GCSE Biology 9-1 Student Book (GCSE Science 9-1) Anne Pilling, John Beeby, 2021-09-20 Exam Board AQA Level Subject GCSE Biology First teaching September 2016 First exams June 2018 AQA approved Laboratory Manual to Accompany Biology Richard M. McCourt, 1988 **Breast Imaging** Biren A. Shah, Sabala R. Mandava, 2023-01-13 Prepare for success on the breast imaging component of the radiology Core Exam Breast Imaging A Core Review 3rd Edition by Drs Biren A Shah and Sabala Mandava is an up to date practical review tool written specifically for the Core Exam This helpful resource contains 300 image rich multiple choice questions with detailed explanations of right and wrong answers fully revised content high yield tables for easy review and additional eBook questions to ensure you re ready for the Core Exam or recertification exam AQA GCSE Biology for Combined Science: Trilogy 9-1 Student Book (GCSE Science 9-1) John Beeby, Anne Pilling, 2021-09-20 Exam Board AQA Level Subject GCSE Combined Science Trilogy First teaching September 2016 First exams June 2018 AQA approved Aqa Gcse Combined Science Foundation Revision and Exam Practice Sb Adam Boxer, Philippa Gardom Hulme, Jo Locke, Alom Shaha, Jessica Walmsley, 2020-07-16 Supports students preparing for AQA GCSE 9 1 2016 spec exams Test Items and Interactive Electronic Study Guide Questions for Starr's Biology : Concept and Applications Larry G. Sellers, 2000

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