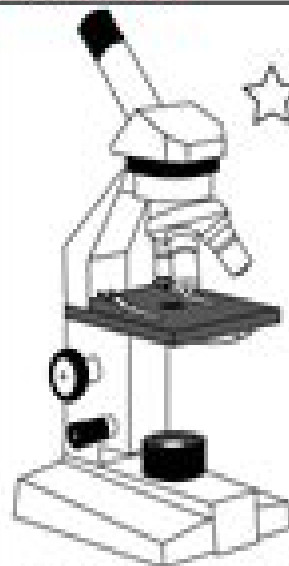
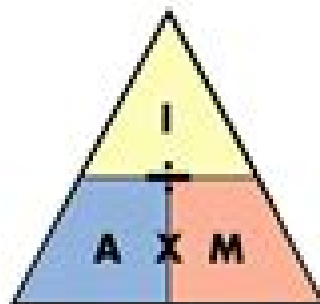


CALCULATING MAGNIFICATION



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



Magnification = Image size \div Actual size

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

Actual size = image / magnification

Image size = actual x magnification

Converting Units

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

Micrometers, μm , are the units used. There are a 1000 μm in 1 mm.

Convert the following into micrometers:

1. 3mm = 3000 μm

2. 0.2mm = 200 μm

3. 0.008mm = 8 μm

Convert the following into millimetres:

1. 1.5 μm = 0.0015 mm

2. 0.5 μm = 0.0005 mm

3. 37.5 μm = 0.037 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 μm .

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 x15000. The diagram is 75mm long.

What is the actual size of the mitochondrion, in μm ?

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

x 1000 to convert to μm

5 μm

4. A student draws a diagram of a cheek cell with a width of 40mm. The actual width of the cell is 25 μm .

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**

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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

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Table of Contents Answers Magnification Size Biology

1. Understanding the eBook Answers Magnification Size Biology
 - The Rise of Digital Reading Answers Magnification Size Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Magnification Size Biology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers Magnification Size Biology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Magnification Size Biology
 - Personalized Recommendations
 - Answers Magnification Size Biology User Reviews and Ratings
 - Answers Magnification Size Biology and Bestseller Lists
5. Accessing Answers Magnification Size Biology Free and Paid eBooks
 - Answers Magnification Size Biology Public Domain eBooks
 - Answers Magnification Size Biology eBook Subscription Services
 - Answers Magnification Size Biology Budget-Friendly Options

6. Navigating Answers Magnification Size Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers Magnification Size Biology Compatibility with Devices
 - Answers Magnification Size Biology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers Magnification Size Biology
 - Highlighting and Note-Taking Answers Magnification Size Biology
 - Interactive Elements Answers Magnification Size Biology
8. Staying Engaged with Answers Magnification Size Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers Magnification Size Biology
9. Balancing eBooks and Physical Books Answers Magnification Size Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers Magnification Size Biology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers Magnification Size Biology
 - Setting Reading Goals Answers Magnification Size Biology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers Magnification Size Biology
 - Fact-Checking eBook Content of Answers Magnification Size Biology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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