# Half-Life

If 100.0 g of carbon-14 decays until only 25.0 g of carbon is left after 11,460 y, what is the half-life of carbon-14?

List the given and unknown values.

Given:	initial mass of sample = 100.0 g
	final mass of sample = 25.0 g
	total time of decay = 11 460 y
Unknown:	number of half-lives = ? half-lives
	half-life = ? y

2. Write down the equation relating half-life, the number of halflives, and the decay time, and rearrange it to solve for half-life.

$$\frac{\text{number of years}}{\text{half-life}} = \frac{\text{total time of decay}}{\text{number of half-lives}} \times \frac{\text{number of years}}{\text{half-life}}$$

3. Calculate how many half-lives have passed during the decay of the 100.0 g sample.

fraction of sample remaining = 
$$\frac{\text{final mass of sample}}{\text{initial mass of sample}} = \frac{25.0 \text{ g}}{100.0 \text{ g}} = \frac{1}{4}$$

after one half-life 
$$=\frac{1}{2}$$
; after two half-lives  $=\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  of sample Two half-lives have passed.

Solve for the half-life.

$$\frac{\text{number of years}}{\text{half-life}} = \frac{11 \text{ 460 y}}{2 \text{ half-lives}} = \frac{5730 \text{ y}}{\text{half-life}}$$
half-life of carbon-14 = 5730 y

# Practice

- What is the half-life of a 100.0 g sample of nitrogen-16 that decays to 12.5 g of nitrogen-16 in 21.6 s?
- 2. All isotopes of technetium are radioactive, but they have widely varying half-lives. If an 800.0 g sample of technetium-99 decays to 100.0 g of technetium-99 in 639 000 y, what is its half-life?
- A 208 g sample of sodium-24 decays to 13.0 g of sodium-24 within 60.0 h. What is the half-life of this radioactive isotope?

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- 1. Understanding the eBook Math Skills Half Life Worksheet Answers
  - The Rise of Digital Reading Math Skills Half Life Worksheet Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Math Skills Half Life Worksheet Answers
  - 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 Math Skills Half Life Worksheet Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Math Skills Half Life Worksheet Answers
  - Personalized Recommendations
  - $\circ\,$  Math Skills Half Life Worksheet Answers User Reviews and Ratings
  - Math Skills Half Life Worksheet Answers and Bestseller Lists
- 5. Accessing Math Skills Half Life Worksheet Answers Free and Paid eBooks
  - Math Skills Half Life Worksheet Answers Public Domain eBooks
  - Math Skills Half Life Worksheet Answers eBook Subscription Services
  - Math Skills Half Life Worksheet Answers Budget-Friendly Options

- 6. Navigating Math Skills Half Life Worksheet Answers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Math Skills Half Life Worksheet Answers Compatibility with Devices
  - Math Skills Half Life Worksheet Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Math Skills Half Life Worksheet Answers
  - o Highlighting and Note-Taking Math Skills Half Life Worksheet Answers
  - Interactive Elements Math Skills Half Life Worksheet Answers
- 8. Staying Engaged with Math Skills Half Life Worksheet Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Math Skills Half Life Worksheet Answers
- 9. Balancing eBooks and Physical Books Math Skills Half Life Worksheet Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Math Skills Half Life Worksheet Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Math Skills Half Life Worksheet Answers
  - Setting Reading Goals Math Skills Half Life Worksheet Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Math Skills Half Life Worksheet Answers
  - Fact-Checking eBook Content of Math Skills Half Life Worksheet Answers
  - 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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web information the marks for questions are shown in brackets the maximum mark for this paper is 60 you are expected to use a calculator where appropriate you are reminded of the need for good english and clear presentation in your answers question 9 should be answered in continuous prose

#### science a biology mme revise - Jun 15 2023

web mark scheme gcse science a biology bl1fp june 2014 7 of 15 question answers extra information mark ao spec ref 2 a i in

the direction of the force of gravity 1 ao2 1 2 3a 2 a ii against the force of gravity 1 ao2 1 2 3a 2 b i 1 2 3a diagram completed to show stem bending leaning towards the window

biology bl1fp jun14bl1fp01 general certificate of - Nov 08 2022

web information the marks for questions are shown in brackets the maximum mark for this paper is 60 you are expected to use a calculator where appropriate you are reminded of the need for good english and clear presentation in your answers question 9 should be answered in continuous prose

science a biology exam qa - Dec 09 2022

web science a biology bl1fp mark scheme 4405 4401 june 2015 relevant questions by a panel of subject teachers this mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme the total marks available for the question the typical answer or answers which

a level biology top h1 h2 biology tutors share how to score - May 02 2022

web jun 15 2021 as seen these papers contain the free response questions and answers from students are expected to be almost essay like referring to the seab syllabus section a h2 there will be one or more stimulus materials that may be taken or adapted from a source such as a scientific journal or book this material may not necessarily

science a bl1fp unit biology b1 f exam qa - Apr 13 2023

web advice in all calculations show clearly how you work out your answer centre number candidate number surname other names candidate signature for examiner s use examiner s initials question mark 1 2 3 4 5 6 7 8 9 10 total f a 2 02 g jun14 bl1fp do not write outside the box

gcse science a biology mark scheme unit 01 biology january - Oct 19 2023

web mark scheme general certificate of education biology bl1fp january 2013 bl1fp question 4 question answers extra information mark 4 a i 2 two allow f and g 1 4 a ii c only 1 4 b any two from balanced diet otherwise malnourished release energy build cells growth repair ignore reference to health

#### biology exam questions and answers for ss1 teststreams blog - Feb 28 2022

web teststreamsblog 2 min 31605 these biology questions and answers were pulled from our book biology questions for ss 1 compiled to serve as a reference material to help teachers draw up test and exam questions faster it could also help students assess their level of exam preparation each sample question includes correct answers

#### gcse biology mark scheme unit 01 biology june 2013 - Jul 16 2023

web mark scheme general certificate of secondary education biology bl1fp june 2013 10 question 5 question answers extra information mark 5 a 8 05 8 1 8 correct answer with or without working gains 2 marks allow 1 mark for 8 0 or 8 10 allow 35 100 x 23 million for 1 mark if no answer or incorrect answer

#### science a biology - Aug 17 2023

web mark scheme gcse biology bl1fp june 2017 4 quality of written communication and levels marking in question 9 b students are required to produce extended written material in english and will be assessed on the quality of their written communication as well as the standard of the scientific response students will be

biology syllabus 8876 singapore examinations and - Jun 03 2022

web of scientific literacy the h1 biology syllabus is distilled from the h2 biology syllabus and key changes to the h1 science curriculum are in tandem with the changes in the h2 science curriculum the biology syllabus is developed as a seamless continuum from o level to a level without the need for topics to be revisited at a level

#### science a bl1fp unit biology b1 f exam qa - Oct 07 2022

web science a bl1fp unit biology b1 biology unit biology b1 friday 5 june 2015 1 30 pm to 2 30 pm for this paper you must have a ruler you may use a calculator time allowed 1 hour instructions use black ink or black ball point pen fill in the boxes at the top of this page answer all questions

# science a biology - Sep 18 2023

web science a biology bl1fp mark scheme 4405 4401 june 2016 version 1 0 final mark scheme mark schemes are prepared by the lead assessment writer and considered together with the total marks available for the question the typical answer or answers which are expected

#### science a bl1fp f physics maths tutor - Jan 10 2023

web 2 do not write outside the box 02 g k93070 jun13 bl1fp answer all questions in the spaces provided 1 the photograph shows an athlete at the start of a race 1 a the athlete s sense organs contain special cells these special cells detect changes in the environment 1 a i lists shows changes in the environment list b shows some of the

#### aqa bl1fp qp jun15 studocu - Sep 06 2022

web 4 b ii what type of cell is cell draw a ring around the correct answer 1 mark an egg cell a skin cell a sperm cell 4 b iii use the correct answer from the box to complete the sentence 1 mark cell membrane cytoplasm nucleus