

MATHS IN FOCUS EXTENSION 1

WORKED SOLUTIONS

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What topics are in Extension 1 maths?

What is the hardest subject in Hsc? By every measurement, extension courses are the most challenging. Maths and Sciences extension courses contain university-level subject material that put most high school students off. Statistics show that only a small percentage of students sit Maths Ex2 exams and even fewer choose Chemistry extension courses.

Is maths extension 2 hard? Maths Extension 2 is an advanced, highly challenging mathematics course available to students in the HSC in New South Wales. It builds on topics introduced in Maths Advanced and Maths Extension 1.

What is the most dropped subject in Hsc? It is unsurprising to see Advanced English on the list of the most dropped subjects in the HSC, with an average of 18.03% of students dropping the subject every year!

What is the number 1 hardest subject? Of all scientific courses, Quantum Physics has been credited as the toughest course in the world. Top Countries to Study Quantum Physics Courses: USA.

What is the hardest math in 12th grade? Pre-calculus is the hardest subject in the regular 12th-grade math curriculum. If you take advanced courses, AP calculus AB and AP calculus BC can be the most challenging.

Is math 1 or math 2 harder? Essentially, Math 1 is the easier exam only if you don't know the advanced topics tested on Math 2. If you do know the Math 2 concepts,

you'll find it easier than Math 1 because the material will be fresher in your mind, the questions are more straightforward, and the curve is kinder.

Is extended maths easy? Difficulty level The extended syllabus is known for its higher level of difficulty. It is designed for students who want to explore subjects in greater depth and are willing to tackle more complex concepts.

What is the difference between Extension 1 and Extension 2? Mathematics (Extension 2) is a bigger jump from Extension 1 than extension 1 is from 2u, and it can be time-consuming to catch up if you do fall behind. It deals with completely new content, such as complex numbers and mechanics, unlike Extension 1, which acts as an "extension" to the 2u course.

What topics are covered in math 1? Math 1 Course Description Math 1 students study linear, exponential, and quadratic functions. They also learn to prove a figure is a specific type of a triangle or quadrilateral through the understanding of parallel and perpendicular lines, midpoint and distance .

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What are extensions in math? In mathematics, particularly in algebra, a field extension (denoted L/K) is a pair of fields L and K , such that the operations of K are those of L restricted to K . In this case, L is an extension field of K and K is a subfield of L .

What is a differential equation in maths extension 1? Differential equations are equations that relates a function to one or more of its derivatives. (e.g $\frac{dx}{dy} = x + 1$). Differential equations focus on describing change (as derivatives are rates of change): useful whenever we want to model something in terms of its change instead of its intrinsic value.

Student Exploration: RNA and Protein Synthesis

Questions and Answers

1. What is the role of mRNA in protein synthesis?

Answer: mRNA (messenger RNA) carries the genetic code from DNA to the ribosome, where it serves as a template for protein synthesis.

2. What is the sequence of steps in RNA and protein synthesis?

Answer:

- Transcription: DNA is copied into mRNA in the nucleus.
- Splicing: Non-coding sequences (introns) are removed from mRNA.
- Translation: mRNA is read by a ribosome, which assembles amino acids into a protein.

3. What is the difference between a codon and an anticodon?

Answer:

- Codon: A sequence of three bases on mRNA that codes for a specific amino acid.
- Anticodon: A sequence of three bases on tRNA (transfer RNA) that complements a codon on mRNA.

4. What is the role of tRNA in protein synthesis?

Answer: tRNA (transfer RNA) molecules bring the correct amino acids to the ribosome based on the codons on mRNA.

5. What are the steps involved in translation?

Answer:

- Ribosome binds to mRNA.
- tRNA binds to mRNA through complementary base pairing.
- Amino acid from tRNA is added to the growing protein chain.
- Ribosome moves along mRNA, reading the next codon and binding the corresponding tRNA.

Shimko International Relations: Unpacking the Complexities

Q1: What is Shimko International Relations? Shimko International Relations is a theoretical framework developed by Daniel Shimko, a renowned international relations scholar. It focuses on the interplay between domestic and international factors in shaping foreign policy decision-making.

Q2: How does Shimko's theory differ from traditional approaches? Traditional theories of international relations often emphasize the role of the state as a unitary actor, focusing on external factors such as the balance of power. Shimko's theory challenges this view, arguing that domestic interests and political structures can significantly influence foreign policy.

Q3: What are the key concepts of Shimko's theory? Shimko's theory introduces the concept of "anchoring," which refers to the ability of domestic institutions to shape foreign policy options. He also emphasizes the importance of "impetus," or the social and political forces that drive foreign policy decisions.

Q4: How does Shimko's theory explain foreign policy behavior? According to Shimko, foreign policy is a result of the interaction between anchoring and impetus. Anchoring institutions constrain foreign policy options, while impetus provides the motivation for particular policy choices. This interaction determines the specific policies adopted by a state.

Q5: What is the significance of Shimko's theory? Shimko International Relations has been influential in shifting scholarly focus from purely external factors to the domestic roots of foreign policy. It provides a nuanced understanding of the complex relationship between domestic politics and international affairs, enriching our understanding of global interactions.

The Bluest Eye by Toni Morrison: A Comprehensive Guide (PDF Webs)

1. Introduction

Toni Morrison's groundbreaking novel "The Bluest Eye" explores the devastating effects of racism on a young African American girl named Pecola Breedlove. Published in 1970, the novel remains a powerful indictment of the societal norms that

perpetuate self-hatred and unattainable beauty ideals.

2. Synopsis

Pecola Breedlove, an 11-year-old living in Lorain, Ohio, yearns for blue eyes to match the beauty standards she sees in magazines and on television. Driven by desperation, she prays to God for blue eyes, believing that if she had them, she would be loved and accepted. However, her prayers go unanswered, and her self-esteem plummets.

3. Themes

"The Bluest Eye" explores a range of complex themes, including:

- The destructive nature of racism
- The internalization of beauty standards
- The search for identity and belonging
- The consequences of child abuse and neglect

4. Characters

The novel features a cast of memorable characters, each struggling with their own inner demons:

- **Pecola Breedlove:** The protagonist, a young girl who yearns for blue eyes.
- **Claudia MacTeer:** Pecola's close friend, who narrates the story with her sister, Frieda.
- **Soaphead Church:** An itinerant preacher who exploits Pecola's vulnerability.
- **Pauline Breedlove:** Pecola's mother, a woman who resents her daughter for her dark skin.

5. Accessibility

"The Bluest Eye" is widely available in print and digital formats, including PDF webs. Readers can access the full text of the novel online at various websites such as:

- Project Gutenberg: <https://www.gutenberg.org/files/54543/54543-h/54543-h.htm>
- ManyBooks: <https://manybooks.net/titles/morrison3340218216/index.html>
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