

Verdgem Quiz

Teacher's Guide



PHYSICS FALLS



MATH MOUNTAINS



About VerdGem

VerdGem is an Education Technology venture on a mission to raise education standards across the Caribbean. Our focus is on delivering creative, regionally relevant, and multimodal learning tools designed specifically for Caribbean students.

Our Mission is to develop high-quality learning tools accessible to every Caribbean student. We believe education should be exciting, inclusive, and rooted in the realities of our region. VerdGem aims to complement traditional education by offering tools that adapt to each student's pace and learning style.

Our two flagship products are an AI-powered quiz platform and an on-demand video platform, both tailored to provide students with different modes of learning.



Our AI-Powered Quiz Platform

The VerdGem Quiz Platform is a modern, web-based application designed to help students prepare for CSEC exams through interactive, personalised, and engaging practice. Built with both learners and educators in mind, our platform has a number of benefits:

For Students: Builds exam confidence, encourages consistent practice, and rewards progress through interactive elements.

For Teachers: Offers insights into student performance, allows for early intervention, and supports lesson planning with data. Also gives teachers a chance to test students' knowledge in an engaging and interactive way.

For Schools: Enables evidence-based decision-making and supplements traditional teaching methods with minimal setup or cost.



Adding Topics and Subtopics

The first order of business is adding topics for your assigned subject. These topics will correlate to the different sections of the CSEC syllabus.

You can add topics from the Subject page or Topics page.

Subjects / Information Technology

Information Technology

Edit

Delete

Description

The CSEC Information Technology (IT) subject equips students with essential digital skills needed for today's technology-driven world. It covers a wide range of topics, including computer hardware and software, programming, networking, cybersecurity, database management, and problem-solving using technology. Students develop both practical and theoretical knowledge, preparing them for careers in IT-related fields or further studies in computing. This subject fosters critical thinking, logical reasoning, and hands-on skills, ensuring that learners can confidently navigate and adapt to the ever-evolving digital landscape. Whether aspiring to be a software developer, network engineer, or IT professional, CSEC IT provides a strong foundation for future success.

Topics

Topic Name

Computer Fundamentals and Information Processing

Computer Networks and Web Technologies

Social and Economic Impact of Information and Communications Technology (ICT)

Word-processing and Web Page Design

Spreadsheets

Database Management

Problem Solving and Program Design

Program Implementation

Questions

Actions

261

View

Add Question

Edit

187

View

Add Question

Edit

212

View

Add Question

Edit

130

View

Add Question

Edit

224

View

Add Question

Edit

188

View

Add Question

Edit

145

View

Add Question

Edit

92

View

Add Question

Edit

Add New Topic

Adding Topics and Subtopics

The next step is to divide your topics into subtopics.

Subtopics allow students to access questions on a specific subtopic within the different sections of the syllabus. For example Wireless Network Technologies can be a subtopic of the Information Technology section Computer Networks and Web Technologies.

You can add subtopics from the page of a selected Topic.



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Computer Fundamentals and Information Processing

Description

On completion of this Section, students should: develop an understanding of the fundamental hardware and software components and the interrelationship among them; develop expertise in evaluating computer systems; and, develop an understanding of basic information processing principles.

Subtopics

| Subtopic Name | Questions | Actions |
|--------------------------------|-----------|---|
| Types of Computers | 10 | <button>View</button> <button>Edit</button> |
| Primary Storage | 0 | <button>View</button> <button>Edit</button> |
| Secondary Storage | 0 | <button>View</button> <button>Edit</button> |
| Units of Storage | 0 | <button>View</button> <button>Edit</button> |
| IPOS Cycle | 0 | <button>View</button> <button>Edit</button> |
| Output Devices | 0 | <button>View</button> <button>Edit</button> |
| Input Devices | 0 | <button>View</button> <button>Edit</button> |
| Computer Software | 0 | <button>View</button> <button>Edit</button> |
| Data Validation & Verification | 0 | <button>View</button> <button>Edit</button> |

[Add Subtopic](#)

Adding Questions

Questions can be added from Subject, Topic, and Subtopic pages.

When adding questions there are a number of important fields to be filled:

- **Question Type:** Whether the question is multiple choice or long answer format
- **Subtopic:** The subtopic that the question should be grouped under. Questions can belong to multiple subtopics
- **Question:** This is the question that will be displayed to students to answer
- **Question Image:** An optional image that can be used as illustrations, diagrams, etc for questions
- **Difficulty Level:** Assigns a difficulty to the question as well as the number of marks for the question. Easy: 1 mark, Medium: 3 marks, Hard: 5 marks. Multiple choice questions are always set to easy.



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Information Technology

[Edit](#) [Delete](#)

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Spreadsheets

Database Management

Problem Solving and Program Design

Questions Actions

| | | | |
|-----|----------------------|------------------------------|----------------------|
| 261 | View | Add Question | Edit |
| 187 | View | Add Question | Edit |
| 212 | View | Add Question | Edit |
| 130 | View | Add Question | Edit |
| 224 | View | Add Question | Edit |
| 188 | View | Add Question | Edit |
| 145 | View | Add Question | Edit |

Adding Questions

Multiple Choice Fields

- **Answer Options:** The answer options available to students for multiple choice questions.

Long Answer Fields

- **Model Answer:** An example of an answer students are expected to give for the specified question. This field is very important as it is used by the system to grade student answers.
- **Key Concepts:** Key concepts that the question covers
- **Marking Criteria:** This tells the system how to grade the student's answer. The total of all criteria must always equal the number of marks assigned to the question.

Answer Options

Option Text

Local Area Network

☒ Correct Answer

Option Text

Long Area Network

☐ Correct Answer

Option Text

Local Astro Network

☐ Correct Answer

Option Text

Local Area Nest

☐ Correct Answer

Questions Guide

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Add New Question for Computer Fundamentals and Information Processing

Question type

Long answer



Subtopic



Question,:

Enter the full question text here...

Optional Question Image

Choose File

No file chosen

No file chosen

Model answer ,:

Provide a comprehensive model answer to this question

How Quiz Grading Works

When students submit an answer our AI system checks their answer against the question marking criteria. The AI system also looks at the model answer to see what an appropriate answer should look like. The model answer also lets the system know how in depth the student should answer the question.

When giving feedback the AI system lets students know what they did well, as well as areas they could improve in. A final score is also given based on their performance against the marking criteria.

