Deira International School

IB DP IB1 CS_KAA HL (IB1)

📖 Summary

Unit 6 Resource management

Subject	Year	Start date	Duration
Computer Science	IB1	Week 1, April	5 weeks 8 hours

Course Part

🔍 Curriculum

⊕ Aims

Provide opportunities for study and creativity within a global context that will stimulate and challenge students developing the skills necessary for independent and lifelong learning

Raise awareness of the moral, ethical, social, economic and environmental implications of using science and technology

Encourage an understanding of the relationships between scientific disciplines and the overarching nature of the scientific method

◇ Objectives

Know and understand

methods of presenting information

Apply and use

terminology to communicate effectively

Construct, analyse, evaluate and formulate

appropriate techniques within a specified solution

📔 Syllabus Content

Additional higher level

Topic 6 - Resource management

6.1 Resource management

System resources

6.1.1 Identify the resources that need to be managed within a computer system.

6.1.2 Evaluate the resources available in a variety of computer systems.

6.1.3 Identify the limitations of a range of resources in a specified computer system.

6.1.4 Describe the possible problems resulting from the limitations in the resources in a computer system.

Role of the operating system

6.1.5 Explain the role of the operating system in terms of managing memory, peripherals and hardware interfaces

6.1.7 Outline OS resource management techniques: scheduling, policies, multitasking, virtual memory, paging, interrupt, polling.

6.1.8 Discuss the advantages of producing a dedicated operating system for a device.

6.1.9 Outline how an operating system hides the complexity of the hardware from users and applications.

📑 ATL Skills

👥 Approaches to Learning

⚙️ Thinking

- In this unit, we will

    ask open questions

    help students to make their thinking more visible (for example, by using a strategy such as a thinking routine)

    ask questions that required the use of knowledge from a different subject from the one you are teaching

💬 Communication

- In this unit, we will

    have students give an oral presentation without reading from their notes

    ask students to monitor and check the quality of their writing

    assess or give feedback on speaking or writing concisely

    ask students to formulate arguments clearly and coherently

📖 Research

- In this unit, we will

    assign a task that required students to use the library

    provide opportunities for students to reflect on how they determine the quality of a source, or analyse contradictory sources

    require students to record their search for sources in steps (types of search engines, search terms, and so on)

👨‍🏫 Developing IB Learners

⭐ Learner Profile

🔍 Inquirers

Deira International School

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💡 Thinkers

⚖️ Balanced

📋 Assessment

📄 Assessment criteria

External Assessment

Paper 1

A: Short answer questions

B: Structured questions

Description