Port Moresby International School

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Unit & Assessment Outline for Students & Parents Grades 7 – 10.

Year	**2026**	Grade	9	Semester	2
Course Title	Computer Technology				
Curriculum Taught	PNG Lower Secondary-Technology and Industrial Arts/ IGCSE-ICT 0417				
Topics	Computer Safety and Security, Data Communication and Network, Website Design.				

Assessment

Week	Topic(s)	Type of Task	Weighting
5-6	Computer Safety and Security	Project	35%
11-12	Data Communication and Network	Project	35%
15	Semester Exam	Written Test	30%

Learning outcomes against which the students will be reported

1. Use ICT safely and responsibly by practising good ergonomics, identifying health hazards, and following safe work practices.
2. Explain how past, current, and emerging technologies affect people, society, and the environment.
3. Understand the basics of data communication, computer networks, and the OSI Model.
4. Use multimedia software and basic networking skills to create media products and design a simple computer network.

Course Aims/Goals

- Give students hands-on STEAM learning experiences so they can use STEAM knowledge and skills to solve real-world problems and make informed decisions.
- Develop positive attitudes toward STEAM and encourage students to choose STEAM-related subjects, courses, and careers in the future.
- Provide opportunities for students to work with STEAM professionals so they can see how STEAM knowledge and skills are used in everyday life.
- Build a pool of STEAM workers who can contribute to national and global development and progress.
- Enable children to achieve high academic standards.

Content Outline

Weeks	Content Outline	Curriculum Links
1-2	**Computer Safety and Security: Physical Safety & E-Safety.** • Discuss terms, physical safety and health problems. • Promoting Healthy Computer Use: Posture and Ergonomic. • Discuss e-safety, cyber security and emerging technologies. • Discuss security of data, hacking and its effects, authentication techniques.	PNG LSS Syllabus - pp. 56 TIA - 9.4.2.1 TIA - 9.4.2.2 TIA - 9.4.2.5
3-4	• Discuss technology and Society – Positive & Negative Impact. • Discuss Artificial Intelligence, robotics & Cloud computing. • Investigate Artificial Intelligence (AI), robotics, cloud computing • Discuss e-waste, energy consumption and sustainable technology practices.	TIA - 9.4.2.3 TIA - 9.4.2.4
5-6	**Assessment Task #01: Computer Safety and Security** **Assessment Project** Project Title: ICT Safety and Responsible Technology Awareness Campaign: • Students use Week 5-6 to complete Project and submit at the end of week 6.	
7-8	**Data Communication & Network:** • Elements of Data Communication Systems • Computer Network Components. • The OSI (Open Systems Interconnect) Model	TIA - 9.4.1.1 TIA - 9.4.1.2 TIA - 9.4.1.3`
9-10	• Applying Technical Concepts in Communications Technology for Media Production - Video creation • Core Concepts and Skills for Communications Media Production • Designing, Configuring, and Managing Simple Networks based on Design Brief	TIA - 9.4.1.4 TIA - 9.4.1.5 TIA - 9.4.1.6
11-12	**Assessment Task #02: Data Communication & Network.** **Assessment Project** Project Title: Design and Present a Simple School Computer Network • Students use Week 11-12 to complete Project and submit at the end of week 6.	TIA - 9.4.1.7
13-14	**Website Design** • Introduction to websites, web browsers, HTML document structure, headings, paragraphs, line breaks, comments, and text formatting. ` • Creating ordered and unordered lists, inserting images, creating hyperlinks, and building tables.	PNG LSS Syllabus - pp. 56
15-16	**Semester 2 Exam: Assessment Task #03: Semester Exam** • Create a 4-page website: Create a Homepage • Creating forms (text boxes, drop-down lists, submit buttons). • Introduction to CSS, colours, fonts, backgrounds, and text formatting.	PNG LSS Syllabus - pp. 56
17-18	• Internal and external CSS, borders, padding, margins, navigation menus, and page layout. • Students begin planning their website project. • Create a 4-page personal website.	PNG LSS Syllabus - pp. 56
19-20	• Finalise website, test functionality, present project to the class, peer evaluation, and reflection. • Integration and Application – Extra activities • Integration of various software tools for comprehensive activities/task.	PNG LSS Syllabus - pp. 56