Dubai International Private School -Br

DIPS, in partnership with parents and community, strives to ensure all students are digitally literate, lifelong learners, productive citizens and nurture their well-being in an inclusive learning environment.

Computer Department

Semester: 1   **2024 – 2025**

Grade Level	8	Subject: Computer - Theory	
Teacher(s) Name	Mr. Nader Madi		
Textbook	DigiCamps (Computing System and Software)		

Week #	Dates		Lesson Title / Pages	CCSS / NGSS Code
1	26 Aug	30 Aug	• Understanding and implementing the working of cryptography	6-8.NI.6 Apply multiple methods of information protection to model the secure transmission of information.
2	2 Sept	6 Sept	• Understanding mechanism of social engineering • Types of social engineering attacks • Tips to stay protected against social engineering attacks	6-8.IC.20 Compare tradeoffs associated with computing. Technologies that affect people's everyday activities and career options.
3	9 Sept	13 Sept	• Effects of social media on human life • Understanding digital footprint • Building a positive digital footprint reputation • Quiz 1	6-8.IC.21 Discuss issues of bias and accessibility in the design of existing technologies.
4	16 Sept	20 Sept	• Differentiating between active and passive digital footprint • Understanding how cookies work and control cookies	6-8.NI.4 Model the role of protocols in transmitting data across networks and the Internet.
5	23 Sept	27 Sept	• Understanding Output Devices. • Monitors and Projectors, Printers, … etc. • Factors Consider When Purchasing a computer	6-8.CS.1 Design modifications to computing devices in order to improve the ways users interact with the devices
6	30 Sept	4 Oct	• Factors Affecting Computer Performance and Cost • Setting Up a computer and choosing an Operating System • Connecting Devices. • Protecting a Computer from Theft	6-8.CS.1 Design modifications to computing devices in order to improve the ways users interact with the devices

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7	7 Oct	11 Oct	• Troubleshooting Common Hardware Problems. • Identifying Common Hardware Problems.	6-8.CS.1 Design modifications to computing devices in order to improve the ways users interact with the devices

8	14 Oct	18 Oct	• Performing Routine Maintenance Tasks.
			  o Clean Up
			  o Check Disk
			  o Disk Defragmentation
				6-8.CS.1
				Design modifications to computing devices in order to improve the ways users interact with the devices

9	21 Oct	25 Oct	• Understanding Operating Systems. • Functions Provided by Operating Systems • Types of Operating Systems.	6-8.CS.1 Design modifications to computing devices in order to improve the ways users interact with the devices
10	28 Oct	1 Nov	• Using the Windows Desktop • Running Applications. • Finding the Application, Setting Up Compatibility Mode.	6-8.CS.1 Design modifications to computing devices in order to improve the ways users interact with the devices
11	4 Nov	8 Nov	• Software Usage • Using Application Software • Using Software Tools	6-8.CS.1 Design modifications to computing devices in order to improve the ways users interact with the devices
12	11 Nov	15 Nov	• Managing Files and Folders • Browsing Locations • Working with File Properties • Quiz 2	6-8.CS.1 Design modifications to computing devices in order to improve the ways users interact with the devices
13	18 Nov	22 Nov	• Troubleshooting Common File Management Problems. • Understanding File Properties	6-8.CS.1 Design modifications to computing devices in order to improve the ways users interact with the devices
14	25 Nov	29 Nov	• Troubleshooting Operating System Problems • Computer Troubleshooting • Approaches to Troubleshooting • Troubleshooting Software • Troubleshooting Peripheral Devices	6-8.CS.1 Design modifications to computing devices in order to improve the ways users interact with the devices
15	2 Dec	6 Dec	• Data and Hardware Protection • Backing Up and Restoring Files • Protecting Hardware	6-8.IC.24 Compare tradeoffs between allowing information to be public and keeping information private and secure

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16	9 Dec	13 Dec	• Understanding the Purpose of Device Driver. • Installing Applications.	6-8.CS.1 Design modifications to computing devices in order to improve the ways users interact with the devices
17	6 Jan	10 Jan	• Understanding Software Licensing. • Registering and Activating Software. • Updating and Upgrading Applications	6-8.IC.23 Compare tradeoffs associated with licenses for computational artifacts to balance the protection of the creators' rights and the ability for others to use and modify the artifacts
18	13 Jan	17 Jan	**Final Exams**	
19	20 Jan	24 Jan	**Final Exams**	