



## Dubai International Private School -



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

## **Computer Department**

Semester: 1 2024 – 2025

Grade Level		4	Subject: Computer		
Teacher(s) Name		Duaa Abu Khalaf			
Textbook		Digi Champs -DigiPro			
Week #	Week # Dates		Lesson Title / Pages	CCSS / NGSS Code	
1	26 Aug	30 Aug	Unit: Digital World Control System and Data  learn: 1. About the range of data recorded by input devices. 2. About the range of information communicated by output devices. 3. How the control systems function in everyday devices.  Unit: Getting Started  Scratch and its Interface	1B-DA-06: Organize and present collected data visually to highlight relationships and support a claim.	
2	2 Sept	6 Sept	Unit: Digital World Control System and Data learn: 1. About the range of data recorded by input devices. 2. About the range of information communicated by output devices. 3. How the control systems function in everyday devices. Unit: Getting Started Scratch and its Interface	1B-DA-06: Organize and present collected data visually to highlight relationships and support a claim.	
3	9 Sept	13 Sept	Unit : Computing Devices Troubleshooting	1B-CS-03-Determine potential solutions to solve simple hardware and	

			Not to panic when ever you have a problem.     Fix issues using some basic troubleshooting techniques     Follow the process of trial and error.  Unit:Getting Started  Save and Share	software problems using common troubleshooting strategies.  Practice: Testing and Refining Computational Artifacts
4	16 Sept	20 Sept	Unit: Computing Devices Troubleshooting  1. Not to panic when ever you have a problem. 2. Fix issues using some basic troubleshooting techniques 3. Follow the process of trial and error.  Unit:Getting Started  Save and Share	1B-CS-03-Determine potential solutions to solve simple hardware and software problems using common troubleshooting strategies.  Practice: Testing and Refining Computational Artifacts
5	23 Sept	27 Sept	Unit: Computing Devices Next Generation Technology  1. Understand newer age technologies. 2. Explore how these developments are shaping the world.  Unit:Getting Started  The Stage	1B-CS-03-Determine potential solutions to solve simple hardware and software problems using common troubleshooting strategies.  Practice: Testing and Refining Computational Artifacts
6	30 Sept	4 Oct	Unit: Computing Devices Next Generation Technology  1. Understand newer age technologies. 2. Explore how these developments are shaping the world.  Unit:Getting Started  The Stage	1B-CS-03-Determine potential solutions to solve simple hardware and software problems using common troubleshooting strategies.  Practice: Testing and Refining Computational Artifacts
7	7 Oct	11 Oct	Unit: Computer Networks Sending Data Using Internet  1. Describe how data is transferred. 2. Explain several key terms and concepts on networking.  Unit: Animate the sprite Moving the Sprite	1B-IC-18-Discuss computing technologies that have changed the world, and express how those technologies influence, and are influenced by, cultural practices.  Practice: Recognizing and Defining Computational ProblemsChar(10)1B-NI-04-Model how information is broken down into smaller pieces, trans-

8	14 Oct	18 Oct	Unit: Computer Networks Cloud Service  1. Explain the advantages of cloud services. 2. Use Google Drive. 3. Understand the types of online files.  Unit: Animate the sprite  Moving the Sprite	mitted as packets through multiple devices over networks and the Internet, and reassembled at the destination.  Practice: Developing and Using Abstractions  1B-IC-18-Discuss computing technologies that have changed the world, and express how those technologies influence, and are influenced by, cultural practices.  Practice: Recognizing and Defining Computational ProblemsChar(10)1B-NI-04-Model how information is broken down into smaller pieces, transmitted as packets through multiple devices over networks and the Internet, and reassembled at the destination.  Practice: Developing and Using Abstractions
9	21 Oct	25 Oct	Unit: Computer Networks Responding to an Email 1. Reply to emails. 2. Reply to the sender and all the recipient(s) at the same time. 3. Forward emails to others.  Unit: Animate the sprite Loop the Actions	1B-IC-18-Discuss computing technologies that have changed the world, and express how those technologies influence, and are influenced by, cultural practices.  Practice: Recognizing and Defining Computational ProblemsChar(10)1B-NI-04-Model how information is broken down into smaller pieces, transmitted as packets through multiple devices over networks and the Internet, and reassembled at the destination.  Practice: Developing and Using Abstractions
10	28 Oct	1 Nov	Unit: Computer Networks Sending Attachments with an Email 1. How to add attachments.  Unit: Animate the sprite Loop the Actions	1B-IC-18-Discuss computing technologies that have changed the world, and express how those technologies influence, and are influenced by, cultural practices.  Practice: Recognizing and Defining Computational ProblemsChar(10)1B-NI-04-Model how information is broken down into smaller pieces, transmitted as packets through multiple devices over networks and the Internet, and reassembled at the destination.  Practice: Developing and Using Abstractions
	4 Nov	8 Nov	Unit : Digital World	

11			World of Computer Science And Robotics  learn about: 1.The roles of computer scientists in various industries. 2.The uses of robots in service industries.  Unit:Animate the sprite  Bounce at the Edge	CCSS.ELA-LITERACY.RST.11- 12.8: Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text.
12	11 Nov	15 Nov	Unit: Digital World World of Computer Science And Robotics  learn about: 1. The roles of computer scientists in various industries. 2. The uses of robots in service industries.  Unit: Animate the sprite  Bounce at the Edge	CCSS.ELA-LITERACY.RST.11- 12.8: Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text.
13	18 Nov	22 Nov	Unit: Exploring Algorithms Repetition In Algorithms learn: 1.To develop, edit, and correct algorithms that use repetition. 2.About the types of loops. To predict the outcome of algorithms that use repetition. Unit: Animate the sprite Random Movement	2-AP-13: Decompose problems and subproblems into parts to facilitate the design, implementation, and review of programs.  •
14	25 Nov	29 Nov	Unit: Exploring Algorithms Comparing and Contrasting Algorithms  1.understand and use selection statements in algorithms.  2.Edit, correct, and predict the outcome of algorithms that contain a selection statement.  Unit: Animate the sprite  Random Movement	2-AP-12: Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.
15	2 Dec	6 Dec	Unit: Exploring Algorithms Comparing and Contrasting Algorithms	<b>2-AP-10</b> : Use flowcharts and/or pseudocode to address complex problems as algorithms.

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			1.To develop algorithms where two objects interrelate. 2.To identify efficient algorithms.  Unit:The Game	
			The Game Plan	
16	9 Dec	13 Dec	Unit: Exploring Algorithms Comparing and Contrasting Algorithms  1.To use variables in algorithms and assign values to them.  2.About the arithmetic (+, -) and comparison (=) operators.	
			Unit :The Game The Game Plan	
17	6 Jan	10 Jan	Unit: Exploring Algorithms Decomposition and Sub-routines  1.To understand and use selection statements in algorithms.  2.To edit, correct, and predict the outcome of algorithms that contain a selection statement.	
			Unit :The Game  If-Else Conditions	
18	13 Jan	17 Jan	Unit :The Game  If-Else Conditions Final Exams	
19	20 Jan	24 Jan	Final Exams	