

Lesson	Date	Day	Unit	Chapter	Lesson	Lesson Topic	REM		
0	8/23/18	Thu	None					1/2 day for Freshman	
1	8/24/18	Fri	1st full day - class expectations, policies, receive texts						
2	8/27/18	Mon	2nd day - class expectations, policies, receive texts, Course Overview + Start Lesson 1 (if possible)						
3	8/28/18	Tue	Unit 1 - The Internet	1 - Representing and Transmitting Info	1	Personal Innovations			
4	8/29/18	Wed			2	Sending Binary Messages			
5	8/30/18	Thu			3	Send binary msgs with internet simulator			
6	8/31/18	Fri			4	Number Systems			
	9/3/18	Mon			Labor Day				Labor Day
7	9/4/18	Tue			5	Binary Numbers			
8	9/5/18	Wed			6	Sending Numbers			
9	9/6/18	Thu		7	Encoding and Sending Formatted Text				
10	9/7/18	Fri		2 - Inventing the Internet - How it Works	8	The Internet is for Everyone			
11	9/10/18	Mon			9	The Need for Addressing			
12	9/11/18	Tue			10	Routers and Redundancy			
13	9/12/18	Wed			11	Packets and Making a Reliable Internet	Delayed Start		
14	9/13/18	Thu			12	The Need for DSN			
15	9/14/18	Fri			13	HTTP and Abstraction on the Internet			
16	9/17/18	Mon	14		PRACTICE PT (Performance Task) - The Internet and Society				
17	9/18/18	Tue	Unit 2 - Digital Information		1 - Encoding and Compressing Info	1	Bytes and File Size		
18	9/19/18	Wed		2		Text Compression			
19	9/20/18	Thu		3		Encoding Black and White Images			
20	9/21/18	Fri		4		Encoding Color Images			
21	9/24/18	Mon		5		Lossy Compression and File Formats			
22	9/25/18	Tue		6		Practice PT (Performance Task) - Encode and Experience			
23	9/26/18	Wed		7 - Finding and Visualizing Data	7	Introduction to Data			
24	9/27/18	Thu			8	Finding Trends with Visualizations			
25	9/28/18	Fri			9	Check Your Assumptions			
26	10/1/18	Mon			10	Good and Bad Data Visualizations			
27	10/2/18	Tue			11	Making Data Visualizations			
28	10/3/18	Wed			12	Discover a Data Story			

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29	10/4/18	Thu		2 - Manipul	13	Cleaning Data	
30	10/5/18	Fri			14	Cleaning Summary Tables	
31	10/8/18	Mon			15	PRACTICE PT (Performance Task) - Tell a Data Story	
32	10/9/18	Tue	Unit 3 - Introduction to Programming	1 - Programming Languages and Algorithms	1 + 2	The Need for Programming Languages + The Need for Algorithms	
33	10/10/18	Wed			3	Creativity in Algorithms	Delayed Start
34	10/11/18	Thu			4	Using Simple Commands	
35	10/12/18	Fri			5	Creating Functions	
36	10/15/18	Mon			6	Functions and Top-Down Design	
37	10/16/18	Tue			7	<u>APIs and Using Functions with Parameters</u> (An application program interface (API) is code that allows two software programs to communicate with each other. The API for Java details all available Classes and how to interact with these "pre-made" classes, and more!)	
38	10/17/18	Wed			8 + 9	Creating functions with parameters + Looping and Random Numbers	
39	10/18/18	Thu			10	PRACTICE PT (Performance Task) - Design a Digital Scene	End 1st Qtr
	10/19/18	Fri				Flex Day	
	10/22/18	Mon				No School - new teacher follow-up	
40	10/23/18	Tue	Unit 4 - Big Data and Privacy	1 - Big Data and Encryption	1-2	What is Big Data? + Rapid Research - Data Innovations	Start 2nd Qtr
41	10/24/18	Wed			3	Identifying People with Data	
42	10/25/18	Thu			4	The Cost of Free	
43	10/26/18	Fri			5-6	Simple Encryption + Encryption with Keys and Passwords	
44	10/29/18	Mon			7	Public Key Encryption	
45	10/30/18	Tue			8	Rapid Research - Cybercrime	
46	10/31/18	Wed			9	Practice PT - Big Data and Cybersecurity Dilemmas	
47	11/1/18	Thu				Preparation	1.25 8.75
						Prepare and Plan: Students complete activities to familiarize themselves with the Explore Performance	

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48	11/2/18	Fri	Explore performance Task	16% of Grade Explore Performance Task (8 hours)	Part 1	Task, how it is scored, and some sample task submissions provided by the College Board. Make a Plan - Students make a plan for completing the Explore PT in the allotted time (minimum of 8 hours): 1) make a checklist of task elements, 2) Estimate the hours required for each task, 3) Prioritize task elements, 4) Review good research practices and strategies.	1.25		
49	11/5/18	Mon						1.25	
50	11/6/18	Tue						1.25	
51	11/7/18	Wed					Part 2	Students Complete and Submit the computational artifact through the student's AP Digital Portfolio.	1.25
52	11/8/18	Thu							1.25
53	11/9/18	Fri							1.25
54	11/12/18	Mon	Unit 5 - Building Apps (Applications)	1 - Event Driven Programming	1	Introduction to Event Driven Programming			
55	11/13/18	Tue			2	Multi-Screen Applications			
56	11/14/18	Wed			3	Building an App: Multiscreen App	Delayed Start		
57	11/15/18	Thu			4	Controlling Memory with Variables			
58	11/16/18	Fri			5	Building an App: Clicker Game			
	11/19-23/18				No school - Thanksgiving Break				
59	11/26/18	Mon			6	User Input and Strings			
60	11/27/18	Tue			7-8	"IF" Statements Unplugged + Boolean Expressions and "IF" Statements			
61	11/28/18	Wed			9	If-else-if and Conditional Logic Statements/Operators			
62	11/29/18	Thu			10	Building an App: Color Sleuth			
63	11/30/18	Fri			11	"While" Loops			

8 hours minimum - see page 71 of AP CS-P Course and Exam Description

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64	12/3/18	Mon		2 - Programming with Data Structures (part)	12	Loops and Simulations			
65	12/4/18	Tue			13-14	Introduction to Arrays + Building an App: Image Scroller			
66	12/5/18	Wed			15	Processing Arrays			
67	12/6/18	Thu			16	Functions and Return Values (Skip Lessons 17 & 18)			
68	12/7/18	Fri	Create Performance Task	24% of Grade	Part 1	<p>Prepare and Plan: Students complete activities to familiarize themselves with the Explore Performance Task, how it is scored, and some sample task submissions provided by the College Board. Students are introduced to the "while" loop construct by first analyzing a flow chart and then by completing through a series of exercises in CODE Studio. The "while" loop repeats a block of code based upon a Boolean condition.</p>	1.25	12.5	
69	12/10/18	Mon				<p>Make a Plan - 1) Students make a plan for completing the Create PT in the allotted time (minimum of 12 hours), 2) Estimate the hours required for each portion, 3) Prioritize program features, 4) Review good collaboration programming practices and strategies.</p>	1.25		
70	12/11/18	Tue			Part 2	Students Complete and Submit: student program code, program video, written responses through their AP Digital Portfolio.		1.25	
71	12/12/18	Wed						1.25	
72	12/13/18	Thu						1.25	
73	12/14/18	Fri						1.25	
74	12/17/18	Mon						1.25	
75	12/18/18	Tue						1.25	
76	12/19/18	Wed						1.25	
12 hours minimum - see page 71 of AP CS-P Course and Exam Description									

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77	12/20/18	Thu					1.25
	12/21/18	Fri					Flex Day - End 2nd Qtr
	12/24/18-1/4/19						Christmas Break
	1/7/19	Mon					PD - Teacher Work Day