

Develop your students skill set and prepare them for the future!

The Easiest Way to Teach Coding in Schools No previous experience in coding required



About Us

- Codementum was established to give children aged 8 to 17 years
- of age an online platform to learn coding, develop mobile games and applications with the coding knowledge they have learnt.
- Codementum provides all the curriculum, intuitive tools, and resources you need to run a successful CS program.
- Codementum aims to provide advanced level computer skills by increasing the algorithmic and computational thinking skills.

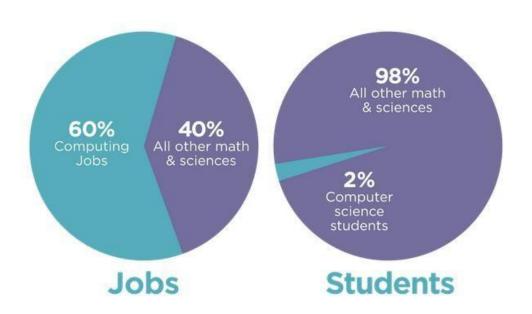


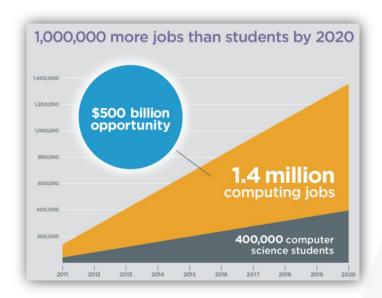




Why Coding?

The job/student gap in Computer Science



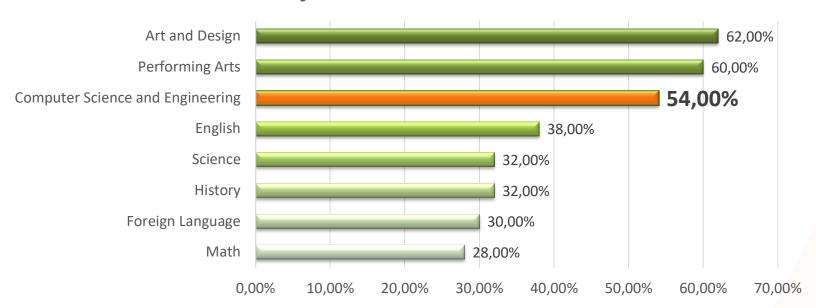




Why Coding?

Students enjoy Computer Science and the Arts the most!

What subjects do students like 'a lot'?





21st Century Skills

- Problem solving
- Analytical thinking
- Critical thinking
- Creative thinking
- Collaboration
- Media and information literacy
- Technology skills

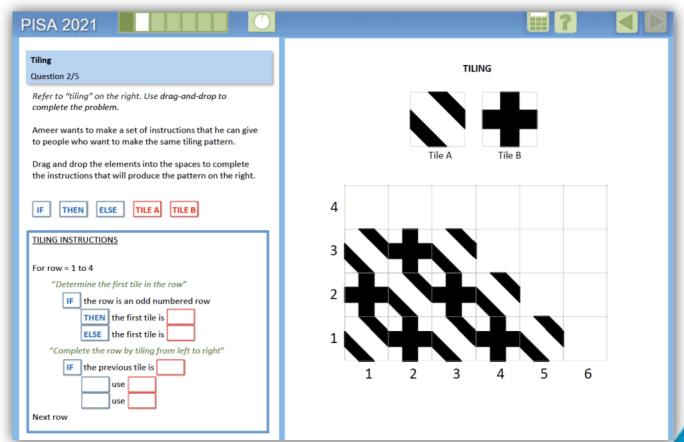




PISA 2021

Computational Thinking in PISA 2021 Mathematics

Below is an example of the type of computational thinking question that could be included on the 2021 PISA assessment.





How To?



No previous experience in coding required



Coding Curriculum for every level



Real Programming Language (Python & JavaScript)



Game Based Learning



Synchronized Text-based and Block-based coding



STEM Courses & Computer Science



Our Projects





Codementum Studio

Learn coding in a fun way by playing games!



Codementum App Maker

Develop platform-independent mobile applications!



Codementum Game Maker

Develop platform-independent mobile games!



Codementum AI-ML Maker

Learn and Develop AI & ML applications!



Codementum STEM

Write code for electronic devices!



Codementum Computer Science

Exercise for coding exams!



Codementum Studio

7 – 13 Ages EASY













Codementum Studio

13+ Ages ADVANCED











Codementum Studio







7 – 13 Ages EASY

CODING	G ADVENTURE 1	CODING	G ADVENTURE 2	CODING	G ADVENTURE 3	CODING ADVENTURE 4		
Section	Topic	Section	Topic	Section	Topic	Section	Topic	
1	The Basics	8	Conditional Expressions - if elif	15	AND OR NOT	22	Debugging	
2	Repeat Loops	9	Conditional Expressions - if else	16	Return Value	23	Functions with Parameters	
3	Variables	10	Boolean Logic	17	Events	24	Character String Methods	
4	Arrays	11	While Loops	18	Lists	25	Modules	
5	For Loops	12	Functions	19	Sets	26	Time and Datetime Modules	
6	Helper Methods	13	Parameters	20	Dictionaries	27	Defining Classes	
7	Conditional Expressions - if	14	Comparison Operators	21	Mathematical operations	28	Database	

13+ Ages ADVANCED

CODING	G ADVENTURE 1	CODING	G ADVENTURE 2	CODING	G ADVENTURE 3	CODING ADVENTURE 4			
Section	Topic	Section	Section Topic		Topic	Section	Topic		
1	The Basics	8	Conditional Expressions - if elif	15	AND OR NOT	22	Debugging		
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7	Conditional Expressions - if	14	Comparison Operators	21	Mathematical operations	28	Database		



Curriculum

LEGEND								
CS-U	Computer Science Unplugged							
CS-F	CS Fundamentals							
CS-FA	CS Fundamentals Advanced							
CS-T	Computer Science Theory							
CS-A	Computer Science Algorithm							
ST-PA	Studio Python Advanced							
ST-JA	Studio JavaScript Advanced							
AP-I	App Maker Intermediate							
GM-I	Game Maker Intermediate							
AI-B	Al-ML Maker Beginner							
AI-B	Al-ML Maker Advanced							
AR-B	AR-VR Maker Beginner							
AR-A	AR-VR Maker Advanced							
STEM-PA	STEM Python Advanced							





CODEMENTUM CURRICULUM OFFER

	idemic ogram		РҮР						MYP		IG	CSE	IBDP	
CSTA	Grades		K-2			G3-5			6-8		9-	10	11	-12
_	rade .evel	KG	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
	Week1	CS-U01	CS-F01	CS-FA01	ST-B01	ST-PB01	ST-PB10	CS-T01	CS-T06	CS-T11	CS-T20	CS-T29	CS-TA01	CS-TA10
	Week2	CS-U02	CS-F02	CS-FA02	ST-B02	ST-PB02	ST-PB11	CS-T02	CS-T07	CS-T12	CS-T21	CS-T30	CS-TA02	CS-TA11
	Week3	CS-U03	CS-F03	CS-FA03	ST-B03	ST-PB03	ST-PB12	CS-T03	CS-T08	CS-T13	CS-T22	CS-T31	CS-TA03	CS-TA12
e 1	Week4	CS-U04	CS-F04	CS-FA04	ST-B04	ST-PB04	ST-PB13	CS-T04	CS-T09	CS-T14	CS-T23	CS-T32	CS-TA04	CS-TA13
Mod ule	Week5	CS-U05	CS-F05	CS-FA05	ST-B05	ST-PB05	ST-PB14	CS-T05	CS-T10	CS-T15	CS-T24	CS-T33	CS-TA05	CS-TA14
_ 8	Week6	CS-U06	CS-F06	CS-FA06	ST-B06	ST-PB06	ST-PB15	CS-A01	CS-A05	CS-T16	CS-T25	CS-T34	CS-TA06	CS-TA15
	Week7	CS-U07	CS-F07	CS-FA07	ST-B07	ST-PB07	ST-PB16	CS-A02	CS-A06	CS-T17	CS-T26	CS-T35	CS-TA07	CS-TA16
	Week8	CS-U08	CS-F08	CS-FA08	ST-B08	ST-PB08	ST-PB17	CS-A03	CS-A07	CS-T18	CS-T27	CS-T36	CS-TA08	CS-TA17
	Week9	CS-U09	CS-F09	CS-FA09	ST-B09	ST-PB09	ST-PB18	CS-A04	CS-A08	CS-T19	CS-T28	CS-T37	CS-TA09	CS-TA18
	Week10	CS-U10	CS-F10	CS-FA10	ST-B10	ST-JB01	ST-B10	ST-PA01	ST-PA10	ST-PA19	ST-PA28	CS-T38	AP-A01	GM-A01
	Week11	CS-U11	CS-F11	CS-FA11	ST-B11	ST-JB02	ST-JB01	ST-PA02	ST-PA11	ST-PA20	ST-PA29	CS-T39	AP-A02	GM-A02
	Week12	CS-U12	CS-F12	CS-FA12	ST-B12	ST-JB03	ST-JB02	ST-PA03	ST-PA12	ST-PA21	ST-PA30	ST-PA38	AP-A03	GM-A03
e 2	Week13	CS-U13	CS-F13	CS-FA13	ST-B13	ST-JB04	ST-JB03	ST-PA04	ST-PA13	ST-PA22	ST-PA31	ST-PA39	AP-A04	GM-A04
Mod ule	Week14	CS-U14	CS-F14	CS-FA14	ST-B14	ST-JB05	ST-JB04	ST-PA05	ST-PA14	ST-PA23	ST-PA32	ST-PA40	AP-A05	GM-A05
_ 8	Week15	CS-U15	CS-F15	CS-FA15	ST-B15	ST-JB06	ST-JB05	ST-PA06	ST-PA15	ST-PA24	ST-PA33	ST-PA41	AP-A06	GM-A06
	Week16	CS-U16	CS-F16	CS-FA16	ST-B16	ST-JB07	ST-JB06	ST-PA07	ST-PA16	ST-PA25	ST-PA34	ST-PA42	AP-A07	GM-A07
	Week17	CS-U17	CS-F17	CS-FA17	ST-B17	ST-JB08	ST-JB07	ST-PA08	ST-PA17	ST-PA26	ST-PA35	ST-PA43	AP-A08	GM-A08
	Week18	CS-U18	CS-F18	CS-FA18	AP-B01	ST-JB09	ST-JB08	ST-PA09	ST-PA18	ST-PA27	ST-PA36	ST-PA44	AP-A09	GM-A09
	Week19	CS-U19	CS-F19	CS-FA19	AP-B02	AP-B01	GM-B01	ST-JA01	ST-JA01	ST-JA19	AP-I01	GM-I01	AI-B01	AR-B01
	Week20	CS-U20	CS-F20	CS-FA20	AP-B03	AP-B02	GM-B02	ST-JA02	ST-JA02	ST-JA20	AP-102	GM-I02	AI-B02	AR-B02
	Week21	CS-U21	CS-F21	CS-FA21	AP-B04	AP-B03	GM-B03	ST-JA03	ST-JA03	ST-JA21	AP-103	GM-103	AI-B03	AR-B03
e 3	Week22	CS-U22	CS-F22	CS-FA22	AP-B05	AP-B04	GM-B04	ST-JA04	ST-JA04	ST-JA22	AP-104	GM-I04	AI-B04	AR-B04
Mod ule	Week23	CS-U23	CS-F23	CS-FA23	AP-B06	AP-B05	GM-B05	ST-JA05	ST-JA05	ST-JA23	AP-105	GM-I05	AI-B05	AR-B05
ğ	Week24	CS-U24	CS-F24	CS-FA24	AP-B07	AP-B06	GM-B06	ST-JA06	ST-JA06	ST-JA24	AP-106	GM-I06	AI-B06	AR-B06
	Week25	CS-U25	CS-F25	CS-FA25	AP-B08	AP-B07	GM-B07	ST-JA07	ST-JA07	ST-JA25	AP-107	GM-I07	AI-B07	AR-B07
	Week26	CS-U26	CS-F26	CS-FA26	AP-B09	AP-B08	GM-B08	ST-JA08	ST-JA08	ST-JA26	AP-108	GM-I08	AI-B08	AR-B08
	Week27	CS-U27	CS-F27	CS-FA27	GM-B01	AP-B09	GM-B09	ST-JA09	ST-JA09	ST-JA27	AP-109	GM-109	AI-B09	AR-B09
	Week28	CS-U28	CS-F28	CS-FA28	GM-B02	STEM-B01	STEM-B10	AP-I01	GM-I01	STEM-P01	STEM-P10	STEM-P19	AI-A01	AR-A01
	Week29	CS-U29	CS-F29	CS-FA29	GM-B03	STEM-B02	STEM-B11	AP-102	GM-I02	STEM-P02	STEM-P11	STEM-P20	AI-A02	AR-A02
	Week30	CS-U30	CS-F30	CS-FA30	GM-B04	STEM-B03	STEM-B12	AP-103	GM-103	STEM-P03	STEM-P12	STEM-P21	AI-A03	AR-A03
4	Week31	CS-U31	CS-F31	CS-FA31	GM-B05	STEM-B04	STEM-B13	AP-104	GM-104	STEM-P04	STEM-P13	STEM-P22	AI-A04	AR-A04
Mod ule	Week32	CS-U32	CS-F32	CS-FA32	GM-B06	STEM-B05	STEM-B14	AP-105	GM-105	STEM-P05	STEM-P14	STEM-P23	AI-A05	AR-A05
_ 8	Week33	CS-U33	CS-F33	CS-FA33	GM-B07	STEM-B06	STEM-B15	AP-106	GM-106	STEM-P06	STEM-P15	STEM-P24	AI-A06	AR-A06
	Week34	CS-U34	CS-F34	CS-FA34	GM-B08	STEM-B07	STEM-B16	AP-107	GM-107	STEM-P07	STEM-P16	STEM-P25	AI-A07	AR-A07
1	Week35	CS-U35	CS-F35	CS-FA35	GM-B09	STEM-B08	STEM-B17	AP-108	GM-108	STEM-P08	STEM-P17	STEM-P26	AI-A08	AR-A08
L	Week36	CS-U36	CS-F36	CS-FA36	GM-B10	STEM-B09	STEM-B18	AP-109	GM-109	STEM-P09	STEM-P18	STEM-P27	AI-A09	AR-A09
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Curriculum Detail

	PRIMARY Computer Science													
			Grade 3	Grade 3 Grade 4								Grade 5		
No	Short Code	Lesson Name	Project Name	Г	No	Short Code	Lesson Name	Project Name		No	Short Code	Lesson Name	Project Name	
1	ST-B01	Studio Block	The Basics		1	ST-PB01	Studio Block	The Basics		1	ST-PB10	Studio Block	Conditional Expressions - if elif	
2	ST-B02	Studio Block	Repeat Loops		2	ST-PB02	Studio Block	Repeat Loops		2	ST-PB11	Studio Block	Conditional Expressions - if else	
3	ST-B03	Studio Block	Variables		3	ST-PB03	Studio Block	Variables		3	ST-PB12	Studio Block	Boolean Logic	
4	ST-B04	Studio Block	Arrays		4	ST-PB04	Studio Block	Arrays		4	ST-PB13	Studio Block	While Loops	
5	ST-B05	Studio Block	For Loops		5	ST-PB05	Studio Block	For Loops		5	ST-PB14	Studio Block	Functions	
6	ST-B06	Studio Block	For Loops		6	ST-PB06	Studio Block	For Loops		6	ST-PB15	Studio Block	Parameters	
7	ST-B07	Studio Block	Helper Methods		7	ST-PB07	Studio Block	Helper Methods		7	ST-PB16	Studio Block	Comparison Operators	
8	ST-B08	Studio Block	Conditional Expressions - if		8	ST-PB08	Studio Block	Conditional Expressions - if		8	ST-PB17	Studio Block	Comparison Operators 2	
9	ST-B09	Studio Block	Conditional Expressions - if Continue		9	ST-PB09	Studio Block	Conditional Expressions - if Continue		9	ST-PB18	Studio Block	AND OR NOT	
10	ST-B10	Studio Block	Conditional Expressions - if elif	Г	10	ST-JB01	Studio Block	The Basics		10	ST-B10	Studio Block	AND OR NOT	
11	ST-B11	Studio Block	Conditional Expressions - if else		11	ST-JB02	Studio Block	Repeat Loops		11	ST-JB01	Studio Block	Return Value	
12	ST-B12	Studio Block	Boolean Logic	Г	12	ST-JB03	Studio Block	Variables		12	ST-JB02	Studio Block	Events	
13	ST-B13	Studio Block	While Loops		13	ST-JB04	Studio Block	Arrays		13	ST-JB03	Studio Block	Lists	
14	ST-B14	Studio Block	Functions	Г	14	ST-JB05	Studio Block	For Loops		14	ST-JB04	Studio Block	Sets	
15	ST-B15	Studio Block	Parameters		15	ST-JB06	Studio Block	For Loops		15	ST-JB05	Studio Block	Dictionaries	
16	ST-B16	Studio Block	Comparison Operators		16	ST-JB07	Studio Block	Helper Methods		16	ST-JB06	Studio Block	Mathematical operations	
17	ST-B17	Studio Block	Comparison Operators		17	ST-JB08	Studio Block	Conditional Expressions - if		17	ST-JB07	Studio Block	Mathematical operations	
18	AP-B01	App Maker	Photogram		18	ST-JB09	Studio Block	Conditional Expressions - if Continue		18	ST-JB08	Studio Block	Mathematical operations	
19	AP-B02	App Maker	Todo App		19	AP-B01	App Maker	Photogram		19	GM-B01	Game Maker	Photogram	
20	AP-B03	App Maker	Project3		20	AP-802	App Maker	Todo App		20	GM-B02	Game Maker	Todo App	
21	AP-B04	App Maker	Project4		21	AP-B03	App Maker	Project3		21	GM-B03	Game Maker	Project3	
22	AP-805	App Maker	Project5	Г	22	AP-B04	App Maker	Project4		22	GM-B04	Game Maker	Project4	
23	AP-B06	App Maker	Project6		23	AP-B05	App Maker	Project5		23	GM-B05	Game Maker	Project5	
24	AP-B07	App Maker	Project7		24	AP-B06	App Maker	Project6		24	GM-B06	Game Maker	Project6	
25	AP-B08	App Maker	Project8		25	AP-B07	App Maker	Project7		25	GM-B07	Game Maker	Project7	
26	AP-B09	App Maker	Project9	Г	26	AP-B08	App Maker	Project8		26	GM-B08	Game Maker	Project8	
27	GM-B01	Game Maker	Photogram		27	AP-B09	App Maker	Project9		27	GM-B09	Game Maker	Project9	
28	GM-B02	Game Maker	Todo App	Г	28	STEM-B01	Micro:Bit	HelloWorld		28	STEM-B10	Micro:Bit - Pyti	Dancing Men	
29	GM-B03	Game Maker	Project3		29	STEM-B02	Micro:Bit	Countdown		29	STEM-B11	Micro:Bit - Pyti	Feelings_ReactionGame	
30	GM-B04	Game Maker	Project4	Г	30	STEM-B03	Micro:Bit	ClearScreen		30	STEM-B12	Micro:Bit - Pyt	Kangaroo	
31	GM-B05	Game Maker	Project5		31	STEM-B04	Micro:Bit	ILoveMicrobit		31	STEM-B13	Micro:Bit - Pyt	Divisibility	
32	GM-B06	Game Maker	Project6		32	STEM-B05	Micro:Bit	MyGraffeisHappy		32	STEM-B14	Micro:Bit - Pyti		
33	GM-B07	Game Maker	Project7		33	STEM-B06	Micro:Bit	WakeUp		33	STEM-B15	Micro:Bit - Pyti		
34	GM-B08	Game Maker	Project8	Г	34	STEM-B07	Micro:Bit	Puzzle		34	STEM-B16	Micro:Bit - Pvt	CatchBalloon	
35	GM-B09	Game Maker	Project9		35	STEM-B08	Micro:Bit	Voting		35	STEM-B17		BasicCalculator	
36	GM-B10	Game Maker	Project10		36	STEM-B09	Micro:Bit	TriangularCard		36	STEM-B18		SportCrunches	

	MYP Computer Science													
			Grade 6	\top			Grade 7				Grade 8			
No	Short Code	Lesson Name	Topic	No	Short Code	Lesson Name	Topic	No	Short Code	Lesson Name	Topic			
1	CS-T01	Theory of CS	Data representation	1	CS-T06	Theory of CS	Use of the hexadecimal system	1	CS-T11	Theory of CS	Logic gates and logic circuits			
2	CS-T02	Theory of CS	The binary system	2	CS-T07	Theory of CS	Communication and internet technologies	2	CS-T12	Theory of CS	Logic gates			
3	CS-T03	Theory of CS	Measurement of computer memories	3	CS-T08	Theory of CS	Data transmission	3	CS-T13	Theory of CS	Truth tables			
4	CS-T04	Theory of CS	Example use of binary	4	CS-T09	Theory of CS	Error-checking methods	4	CS-T14	Theory of CS	The function of the six logic gates			
5	CS-T05	Theory of CS	The hexadecimal system	5	CS-T10	Theory of CS	Internet Technologies	5	CS-T15	Theory of CS	Logic circuits			
6	CS-A01	Pseudocode	Project 1	6	CS-A05	Flowchart	Project 1	6	CS-T16	Theory of CS	Logic circuits in the real world			
7	CS-A02	Pseudocode	Project 2	7	CS-A06	Flowchart	Project 2	7	CS-T17	Theory of CS	Logic circuits Project 1			
8	CS-A03	Pseudocode	Project 3	8	CS-A07	Flowchart	Project 3	8	CS-T18	Theory of CS	Logic circuits Project 2			
9	CS-A04	Pseudocode	Project 4	9	CS-A08	Flowchart	Project 4	9	CS-T19	Theory of CS	Logic circuits Project 3			
10	ST-PA01	Studio Python	The Basics	10	ST-PA10	Studio Python	Conditional Expressions - if elif	10	ST-PA19	Studio Python	Return Value			
11	ST-PA02	Studio Python	Repeat Loops	11	ST-PA11	Studio Python	Conditional Expressions - if else	11	ST-PA20	Studio Python	Return Value			
12	ST-PA03	Studio Python	Variables	12	ST-PA12	Studio Python	Boolean Logic	12	ST-PA21	Studio Python	Return Value			
13	ST-PA04	Studio Python	Arrays	13	ST-PA13	Studio Python	While Loops	13	ST-PA22	Studio Python	Events			
14	ST-PA05	Studio Python	For Loops	14	ST-PA14	Studio Python	Functions	14	ST-PA23	Studio Python	Events			
15	ST-PA06	Studio Python	For Loops	15	ST-PA15	Studio Python	Parameters	15	ST-PA24	Studio Python	Events			
16	ST-PA07	Studio Python	Helper Methods	16	ST-PA16	Studio Python	Comparison Operators	16	ST-PA25	Studio Python	Lists			
17	ST-PA08	Studio Python	Conditional Expressions - if	17	ST-PA17	Studio Python	Comparison Operators 2	17	ST-PA26	Studio Python	Lists			
18	ST-PA09	Studio Python	Conditional Expressions - if 2	18	ST-PA18	Studio Python	AND OR NOT	18	ST-PA27	Studio Python	Lists			
19	ST-JA01	Studio JS	The Basics	19	ST-JA01	Studio JS	Conditional Expressions - if elif	19	ST-JA19	Studio JS	Return Value			
20	ST-JA02	Studio JS	Repeat Loops	20	ST-JA02	Studio JS	Conditional Expressions - if else	20	ST-JA20	Studio JS	Return Value			
21	ST-JA03	Studio JS	Variables	21	ST-JA03	Studio JS	Boolean Logic	21	ST-JA21	Studio JS	Return Value			
22	ST-JA04	Studio JS	Arrays	22	ST-JA04	Studio JS	While Loops	22	ST-JA22	Studio JS	Events			
23	ST-JA05	Studio JS	For Loops	23	ST-JA05	Studio JS	Functions	23	ST-JA23	Studio JS	Events			
24	ST-JA06	Studio JS	For Loops	24	ST-JA06	Studio JS	Parameters	24	ST-JA24	Studio JS	Events			
25	ST-JA07	Studio JS	Helper Methods	25	ST-JA07	Studio JS	Comparison Operators	25	ST-JA25	Studio JS	Lists			
26	ST-JA08	Studio JS	Conditional Expressions - if	26	ST-JA08	Studio JS	Comparison Operators 2	26	ST-JA26	Studio JS	Lists			
27	ST-JA09	Studio JS	Conditional Expressions - if 2	27	ST-JA09	Studio JS	AND OR NOT	27	ST-JA27	Studio JS	Lists			
28	AP-I01	App Maker	Photogram	28	GM-I01	App Maker	Photogram	28	STEM-P01	Micro:Bit	HelloWorld			
29	AP-102	App Maker	Todo App	29	GM-I02	App Maker	Todo App	29	STEM-P02	Micro:Bit	Countdown			
30	AP-103	App Maker	Project3	30	GM-I03	App Maker	Project3	30	STEM-P03	Micro:Bit	ClearScreen			
31	AP-104	App Maker	Project4	31	GM-I04	App Maker	Project4	31	STEM-P04	Micro:Bit	ILoveMicrobit			
32	AP-105	App Maker	Project5	32	GM-I05	App Maker	Project5	32	STEM-P05	Micro:Bit	MyGraffeisHappy			
33	AP-106	App Maker	Project6	33	GM-I06	App Maker	Project6	33	STEM-P06	Micro:Bit	WakeUp			
34	AP-107	App Maker	Project7	34	GM-107	App Maker	Project7	34	STEM-P07	Micro:Bit	Puzzle			
35	AP-108	App Maker	Project8	35	GM-I08	App Maker	Project8	35	STEM-P08	Micro:Bit	Voting			
36	AP-109	App Maker	Project9	36	GM-I09	App Maker	Project9	36	STEM-P09	Micro:Bit	TriangularCard			

			IGCSE C	omp	uter Sci	ence	
			Grade 9			Grade 10	
No	Short Code	Lesson Name	Topic	No		Lesson Name	Topic
1	CS-T20	Theory of CS	Operating systems	1	CS-T29	Theory of CS	Programming languages
2	CS-T21	Theory of CS	Interrupts	2	CS-T30	Theory of CS	Interpreter and Translators
3	CS-T22	Theory of CS	Computer architecture	3	CS-T31	Theory of CS	Security and data integrity
4	CS-T23	Theory of CS	The fetch-execute cycle	4	CS-T32	Theory of CS	Cookies
5	CS-T24	Theory of CS	Input devices	5	CS-T33	Theory of CS	Loss of data and data corruption
6	CS-T25	Theory of CS	Output devices	6	CS-T34	Theory of CS	Firewalls and proxy servers
7	CS-T26	Theory of CS	File formats	7	CS-T35	Theory of CS	Security protocols
8	CS-T27	Theory of CS	Lossless and lossy file compression	8	CS-T36	Theory of CS	Encryption
9	CS-T28	Theory of CS	Memory and storage	9	CS-T37	Theory of CS	Applications
10	ST-PA28	Studio Python	Dictionaries	10	CS-T38	Theory of CS	Computer ethics
11	ST-PA29	Studio Python	Mathematical operations	11	CS-T39	Theory of CS	Free software, freeware and shareware
12	ST-PA30	Studio Python	Mathematical operations	12	ST-PA38	Studio Python	Modules
13	ST-PA31	Studio Python	Debugging	13	ST-PA39	Studio Python	Modules
14	ST-PA32	Studio Python	Debugging	14	ST-PA40	Studio Python	Time and Datetime Modules
15	ST-PA33	Studio Python	Functions with Parameters	15	ST-PA41	Studio Python	Defining Classes
16	ST-PA34	Studio Python	Functions with Parameters	16	ST-PA42	Studio Python	Defining Classes
17	ST-PA35	Studio Python	Character String Methods	17	ST-PA43	Studio Python	Database
18	ST-PA36	Studio Python	Character String Methods	18	ST-PA44	Studio Python	Database
19	AP-101	App Maker	Photogram	19	GM-I01	Game Maker	Color Puzzle
20	AP-102	App Maker	Todo App	20	GM-I02	Game Maker	Image Match
21	AP-103	App Maker	Project3	21	GM-I03	Game Maker	Game3
22	AP-104	App Maker	Project4	22	GM-I04	Game Maker	Game4
23	AP-105	App Maker	Project5	23	GM-I05	Game Maker	Game5
24	AP-106	App Maker	Project6	24	GM-I06	Game Maker	Game6
25	AP-107	App Maker	Project7	25	GM-I07	Game Maker	Game7
26	AP-108	App Maker	Project8	26	GM-I08	Game Maker	Game8
27	AP-109	App Maker	Project9	27	GM-I09	Game Maker	Game9
28	STEM-P10	Micro:Bit - Python	Dancing Men	28	STEM-P19	Micro:Bit - Python	SavDirection
29	STEM-P11	Micro:Bit - Python	Feelings_ReactionGame	29	STEM-P20	Micro:Bit - Python	HowFast
30	STEM-P12	Micro:Bit - Python	Kangaroo	30	STEM-P21	Micro:Bit - Python	SOS
31	STEM-P13	Micro:Bit - Python	Divisibility	31	STEM-P22	Micro:Bit - Python	LightLevelSensor
32		Micro:Bit - Python	Divisibility	32	STEM-P23	Micro:Bit - Python	OuizShow
33		Micro:Bit - Python	HotOrCold	33	STEM-P24	Micro:Bit - Python	ColorfulCompass
34	STEM-P16	Micro:Bit - Python	CatchBalloon	34	STEM-P25	Micro:Bit - Python	BrightnessAdjustment
35		Micro:Bit - Python	BasicCalculator	35	STEM-P26	Micro:Bit - Python	Magnetometer
		Micro:Bit - Python	SportCrunches	36	STEM-P27	Micro:Bit - Python	ColorfulBlow

	IB Computer Science												
			Grade 11				Grade 12						
No	Short Code	Lesson Name	Topics			Lesson Name	Topics						
1	CS-TA01	Theory of CS	Information representation	1	CS-TA10	Theory of CS	Data representation						
2	CS-TA02	Theory of CS	Communication and Internet technologies	2	CS-TA11	Theory of CS	Communication and Internet technologies						
3	CS-TA03	Theory of CS	Hardware	3	CS-TA12	Theory of CS	Boolean algebra and logic circuits						
4	CS-TA04	Theory of CS	Logic gates and logic circuits	4	CS-TA13	Theory of CS	Boolean algebra and logic circuits						
5	CS-TA05	Theory of CS	Processor fundamentals	5	CS-TA14	Theory of CS	Processor and computer architecture						
6	CS-TA06	Theory of CS	System software	6	CS-TA15	Theory of CS	Processor and computer architecture						
7	CS-TA07	Theory of CS	Data security, privacy and integrity	7	CS-TA16	Theory of CS	System software						
8	CS-TA08	Theory of CS	Ethics and ownership	8	CS-TA17	Theory of CS	Security						
9	CS-TA09	Theory of CS	Database and data modelling	9	CS-TA18	Theory of CS	Monitoring and control systems						
10	AP-A01	App Maker	Photogram	10	GM-A01	Game Maker	Color Puzzle						
11	AP-A02	App Maker	Todo App	11	GM-A02	Game Maker	Image Match						
12	AP-A03	App Maker	Project3	12	GM-A03	Game Maker	Game3						
13	AP-A04	App Maker	Project4	13	GM-A04	Game Maker	Game4						
14	AP-A05	App Maker	Project5	14	GM-A05	Game Maker	Game5						
15	AP-A06	App Maker	Project6	15	GM-A06	Game Maker	Game6						
16	AP-A07	App Maker	Project7	16	GM-A07	Game Maker	Game7						
17	AP-A08	App Maker	Project8	17	GM-A08	Game Maker	Game8						
18	AP-A09	App Maker	Project9	18	GM-A09	Game Maker	Game9						
19	AI-B01	AI-ML Maker	Emotoin Analysis	19	AR-B01	AR-VR Maker	Project1						
20	AI-B02	AI-ML Maker	Voice Analysis	20	AR-B02	AR-VR Maker	Project2						
21	AI-B03	AI-ML Maker	Project3	21	AR-B03	AR-VR Maker	Project3						
22	AI-B04	AI-ML Maker	Project4	22	AR-B04	AR-VR Maker	Project4						
23	AI-B05	AI-ML Maker	Project5	23	AR-B05	AR-VR Maker	Project5						
24	AI-B06	AI-ML Maker	Project6	24	AR-B06	AR-VR Maker	Project6						
25	AI-B07	AI-ML Maker	Project7	25	AR-B07	AR-VR Maker	Project7						
26	AI-B08	AI-ML Maker	Project8	26	AR-B08	AR-VR Maker	Project8						
27	AI-B09	AI-ML Maker	Project9	27	AR-B09	AR-VR Maker	Project9						
28	Al-A01	AI-ML Maker	Emotoin Analysis	28	AR-A01	AR-VR Maker	Project1						
29	Al-A02	AI-ML Maker	Voice Analysis	29	AR-A02	AR-VR Maker	Project2						
30	AI-A03	AI-ML Maker	Project3	30	AR-A03	AR-VR Maker	Project3						
31	Al-A04	AI-ML Maker	Project4	31	AR-A04	AR-VR Maker	Project4						
32	AI-A05	AI-ML Maker	Project5	32	AR-A05	AR-VR Maker	Project5						
33	AI-A06	AI-ML Maker	Project6	33	AR-A06	AR-VR Maker	Project6						
34	AI-A07	AI-ML Maker	Project7	34	AR-A07	AR-VR Maker	Project7						
35	AI-A08	AI-ML Maker	Project8	35	AR-A08	AR-VR Maker	Project8						
36	Al-A09	AI-ML Maker	Project9	36	AR-A09	AR-VR Maker	Project9						



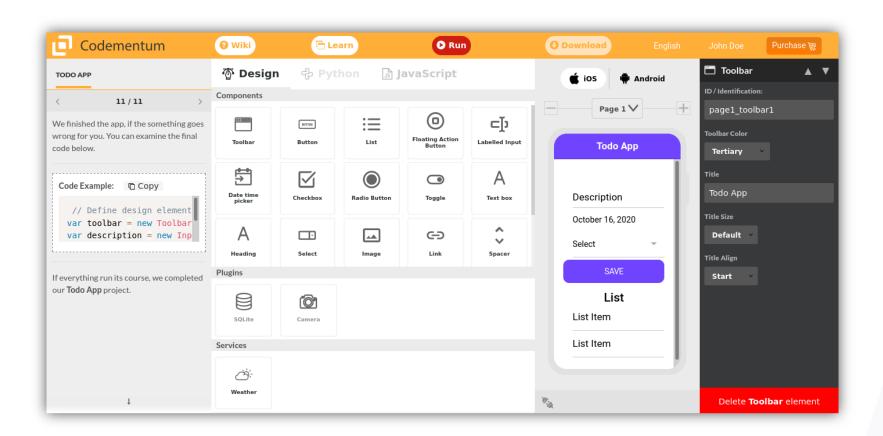
Codementum App Maker











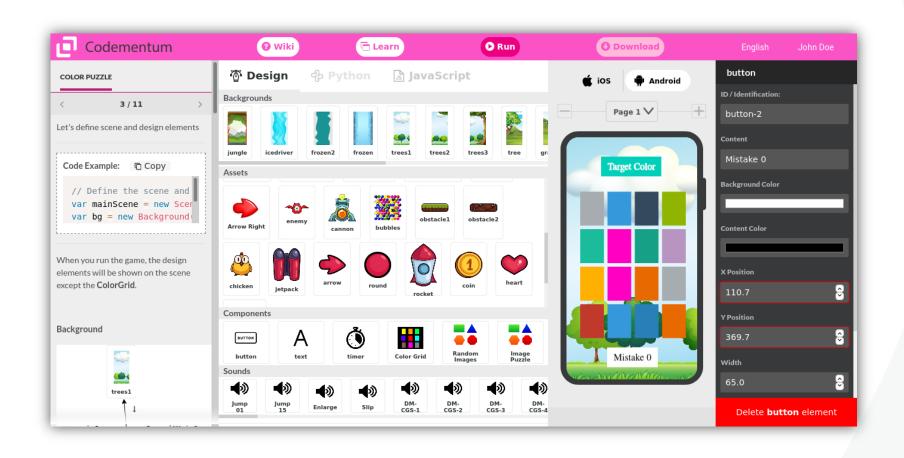
Codementum Game Maker











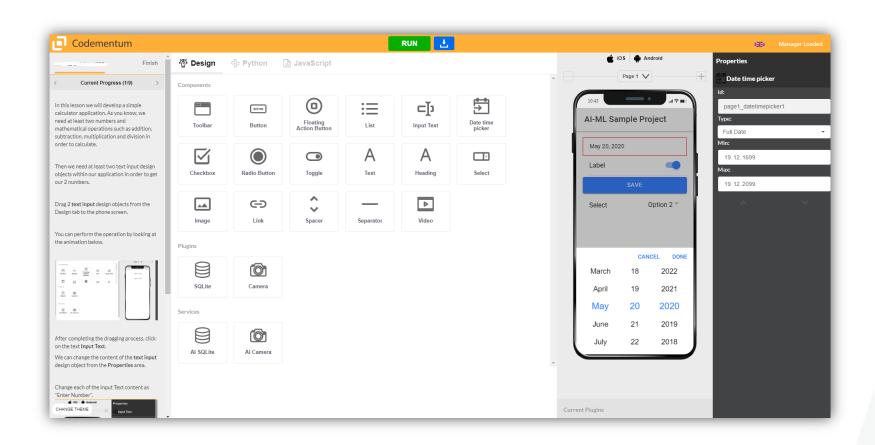
Codementum AI-ML Maker











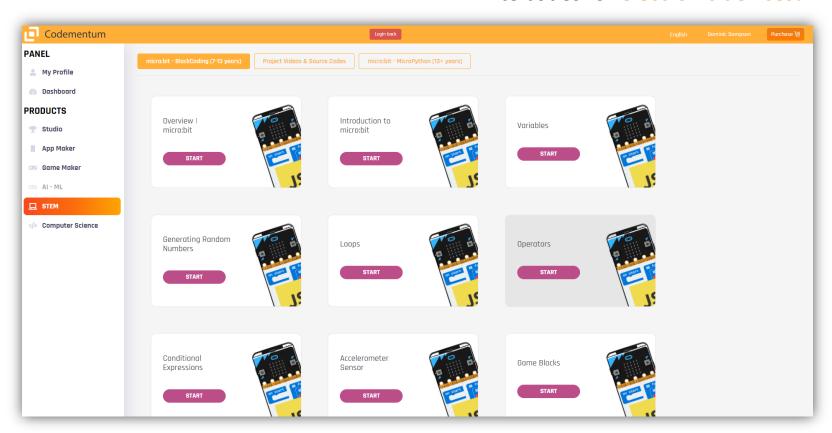
Codementum STEM





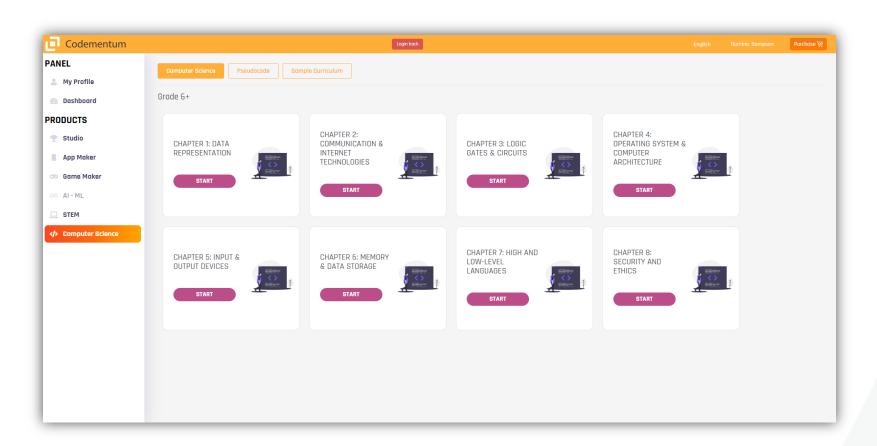


Write codes for electronic devices!



Codementum Computer Science

Exercise for coding exams!



Roadmap

Beginner



In our Codementum STUDIO platform, children will learn coding in Python and JavaScript while playing an adventurous game.

Mid Level



In our Codementum APP Maker and Codementum GAME Maker platforms, children can develop mobile applications and games for IOS and Android platforms with the help of an online trainer.

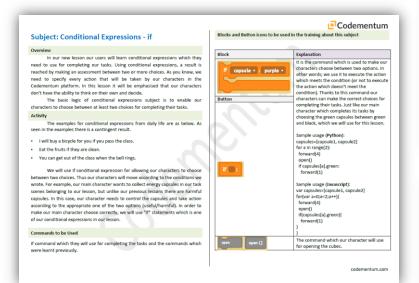
Advanced

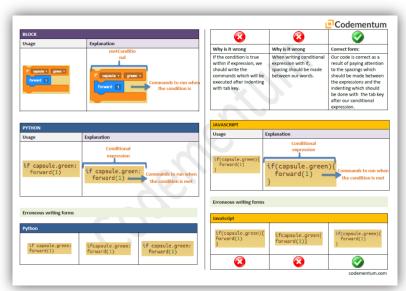


In our Codementum AI & ML and Codementum AR & VR platforms, children will learn how to develop AI & ML, as well as AR & VR applications in a simple and creative way.



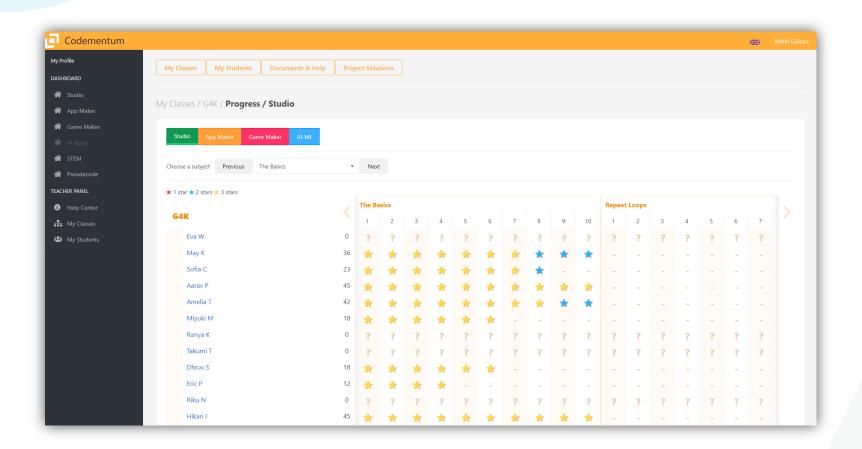
Teacher Guide







Monitor & Assess





Certificate





Customize

- Special curriculum for your school/corporation
- Login customization panel.codementum.com/abc-school
- Subdomain customization abc-corp.codementum.com
- Banner customization
 Add your school/corporation logo
- Header & Menu customization
 Add your school/corporation colors
- Certificate customization





References



West Craven High School

Kings School Winchester





Moor Row Primary School



Ifield Community College



Eagle House School





Bethany School



St Egwin's C.E. Middle School



Langley Park School





TORQUAY BOYS' GRAMMAR SCHOOL

Bablake School





THE COWPLAIN SCHOOL

EPENDENT SCHOOL FOR







References

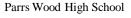














St Colman's College



Violet Hill





Sydenham School



St Mary's RC High School







Newport

Christ's College Finchley



Micklands Primary School











Contact Us



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