7-8 YEARS | WEEK 14
Technology – Coding, Pixel Arts & Crypts

1. Solve and find

2. Coding basics – Sequencing

3. Coding basics – Decomposition

4. Coding basics – Loops

5. Coding basics – Branching

6. Coding basics – Debugging

7. Coding – Pixel art

8. Coding – Pixel art

9. Coding – Pixel art

10. Coding – Pixel art

11. Coding – Pixel art

12. Coding – Pixel art

13. Crypt arithmetic reference

14. Crypt arithmetic

15. Crypt arithemtic

16. Crypt arithmetic

17. Crypt arithmetic

18. Unplugged coding

19. Unplugged coding

20. Unplugged coding

Solve and find

Given below are the names of some clothes in numerical codes. Interchange the numbers with the letters of the alphabet and solve the puzzle.

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

a. 3   15   1   20   _____

b. 16   1   14   20   19   _____

c. 19   23   5   1   20   5   18   _____

d. 3   1   16   _____

e. 6   18   15   3   11   _____

f. 19   8   9   18   20   _____

T: Coding basics - Sequencing

Sequencing is a set of logical steps in order. Let us do an activity. Guide Ram to his house. Along the way, you must pick up his friend, Sam and make sure not to cross the borders. You can move your pencil along the path and then use the symbols given below to write your code to get Ram and Sam to Ram's house.

Symbols		
→ Move right	← Move left	↑ Move up
↓ Move down	● Pick up Sam	☺ Reached home

Start	1	2	3	4	5
11	10	9	8	7	6
12	13	14	15	16	17
23	22	21	20	19	18
24	25	26	27	28	29
End	34	33	32	31	30

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T: Coding basics - Decomposition

A large problem is divided into many smaller problems so that a person can focus on each smaller problem separately. Can you decompose a given figure? Draw all the different shapes at the right that make up the given figure at the left.

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