



11-12 YEARS | WEEK 03

Technology-Coding Algorithms And Robotics

1. Mathematical concepts based on algorithm

2. Coding - Sequences

3. Coding - Basic terms

4. Coding - Algorithm

5. Computers - Cryptic codes

6. Computers - Binary code

7. Gadgets - Crack the binary code

8. Color coding

9. Color coding

10. Color coding

11. Tracing the route

12. Tracing the route

13. Tracing the route

14. Unplugged coding

15. Unplugged coding

16. Robotics - History of robots

17. Robotics - Robot inspired movies

18. Robotics - Workshop

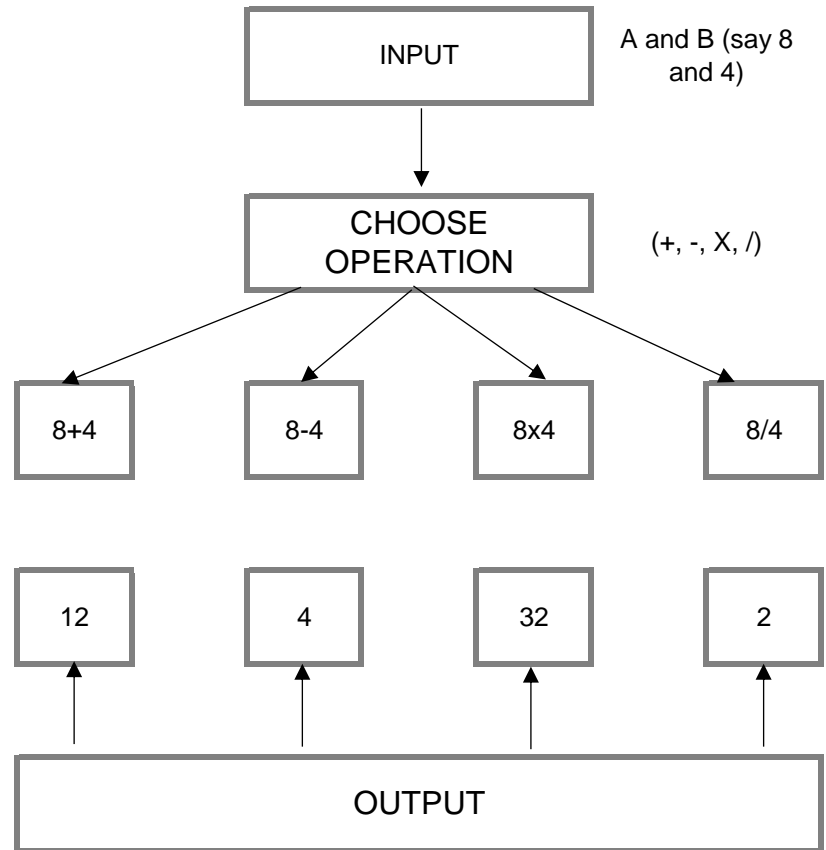
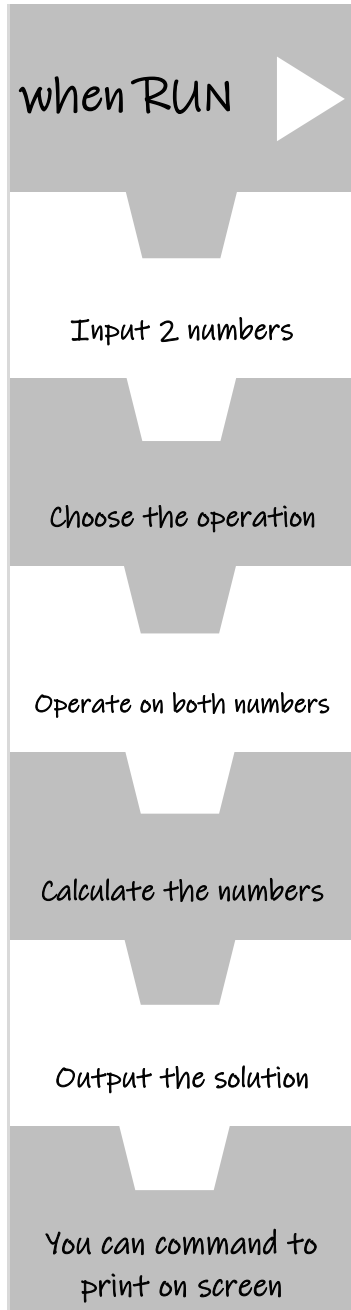
19. Robotics - Vocabulary

20. Robotics - Design your robot



MATHEMATICAL CONCEPTS BASED ON ALGORITHM

Let's understand how robot would work with numbers. Follow the given steps of the algorithm and design inputs and outputs.



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(18 , 6)				
(24 , 3)				
(36 , 4)				
(49 , 7)				

T: Coding - Basic terms



Do you understand the terminologies used in coding technology? Write the terms in the blanks using the vocabularies given in the boxes.

algorithm	arrays	argument	bit	coding
conditional statements	function	loops	machine learning	scripts
training	boolean	character	string	neural network

1. _____ is the process of feeding a huge amount of data into the algorithm so the algorithm can adjust and improve as if it is learning.
2. A variable type to represent words and phrases is _____.
3. A _____ is a block of code that can be referenced by name to run the code it contains.
4. _____ are the statements that evaluate true or false.
5. The individual 1's and 0's in binary are called _____.
6. _____ are containers that hold variables of similar data type.
7. An _____ is a set of instructions used to solve a problem.
8. An _____ is a way to provide more information to a function.
9. _____ is how people create instructions for computers to follow using programs through different programming languages.

Answer Key: 1. Training, 2. String, 3. function, 4. Conditional statements, 5. bit, 6. Arrays, 7. algorithm, 8. argument, 9. Coding.

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