	Season	1
Algorithms	Episode	01
•	Time frame	1 period

Objectives:

- Read an algorithm.
- Follow an algorithm with paper and pen.

Materials :

- Slideshow explaining the main concepts.
- Task sheet.
- Answer sheet.

1 – Short lecture about algorithm

Using a slideshow, the teacher explains the main concepts about algorithms and gives an example.

2 – Group work

The class is divided in four groups. Each group has to carry out a few tasks involving algorithms. Each task is awarded a certain mark to make up a final mark at the end of the lesson.

10 mins

45 mins

	Season	1
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J	Document	Task sheet

Algorithm # 1

1. Apply this algorithm to the following inputs.

Input	0	5	-2	10
Output				

Begin Input : A $A + 2 \rightarrow A$; Output : Aend

2. What seems to be the purpose of this algorithm?

Algorithm # 2



1. Apply this algorithm to the following inputs.

Input	2	-2	5	-5	-8	-9
Output						

2. What seems to be the purpose of this algorithm ?

Algorithm # 3

Begin Input : (x, y) $10x + y \rightarrow u$; $100u \rightarrow v$; $100v \rightarrow w$; $u + v + w \rightarrow s$; Output : s end

Apply this algorithm to the following inputs.

Input	(5, 3)	(2, 1)	(6,7)
Output			



Extras

1. In a shop, during sale time, there is a 10% discount if the amount of the purchase is greater than or equal to 500 pounds. Write an aglorithm that computes actual amount paid by the customer.

Begin			
end			

2. Write an algorithm that builds the multiplication table for a number less than 10.

Begin			
\mathbf{end}			