ANSWERS ON THE NEXT PAGE

Computational thinking A bubble sort is carried out on this list to put it in ascending order.									
	8	3	2	4	0	3	9		
The value '8' starts in position 0.									
(i) State the number of passes red	quire	d to	com	plete	the	sort.			
									(1)
(ii) State the number of swaps ma									•••••
									(1)
(iii) State the component of an alg									ng a
									(1)
(iv) State the position of the item									
									(1)
(v) Define the term 'iteration'.									
									(1)

ANSWERS

- 5 passes to complete the sort 4 to get the answers in order and 1 final pass for the algorithm to set its swaps variable to 0 which will stop the sort.
 Remember that on each pass, the largest value in the list will move ('bubble up' to the right)
- 2. 0 swaps are made on the final pass.
- 3. A variable is used to store the number of swaps.
- 4. The value in position 1 will be compared with the value in position 0.
- 5. Iteration means looping over each item in a string or list. Iteration looks at each value using index positions.