



Activity type	classroom <input checked="" type="checkbox"/> homework <input checked="" type="checkbox"/> independent learning <input type="checkbox"/> other <input type="checkbox"/>		
Activity objectives(s)	Understand the need for Input Validation Compare different Input Validation algorithms.		
Activity resources(s)	Programming language		
Delivery mode	teacher led <input checked="" type="checkbox"/> student led <input type="checkbox"/>	Collaboration type	individual <input checked="" type="checkbox"/> pairs <input checked="" type="checkbox"/> groups <input type="checkbox"/>
Task description	<p>For homework, students should consider why Input Validation routines are needed. They could look at how input validation is implemented on web forms for dates, countries etc. Questions to consider are: What are the disadvantages of this sort of input validation? What are the advantages?</p> <p>Students should implement the first two Input Validation algorithms from UNIT 1 Topic 6.2 in their chosen programming language. Ask them to compare the two algorithms considering efficiency and readability.</p> <p>Students should then implement an input validation routine using a boolean variable using a WHILE ... END WHILE loop and a REPEAT ... UNTIL loop and compare them using the same criteria.</p> <p>Finally they should implement an Input Validation routine which uses a boolean variable to check for two or more conditions, using their preferred type of loop.</p>		



SCHOLAR Lesson Outline

Differentiation (Alternative use)	Could be used with National 5 as well as Higher
Hints & Tips	The example solution in SCHOLAR to an Input Validation routine which requires two conditions to be met uses a REPEAT ... UNTIL loop. A useful exercise would be to ask them to create a solution which uses a WHILE ... END WHILE loop
Notes	SCHOLAR notes Unit 1 Topic 6.3