<u>Influence</u>	Equation/Data	Source/Justification	<u>Reliability</u>
ICT	0	n/a	n/a
COMSC	1	n/a	n/a
Attractiveness Factor	IF(COMSC>=1)THEN(COMSC)ELSE(ICT)	Equation determines whether to run ICT or COMSC through the simulation	n/a
Number of pupils taking the course	IF(attractiveness_factor>=1)THEN (no_of_pupils_in_year*likelihood_to_take_subject) ELSE(no_of_pupils_in_year*0.28)	Interview – Gary Morgan Determined there are currently 28% of a year group studying ICT, Most other subject have around 40% Made the assumption if ICT moved to COMSC then attractiveness would rise in line with other subjects.	Reliable as based on current figures in school. Less reliable, as cannot guarantee pupils will want to study COMSC
Number of pupils in the year	350	Interview – Gary Morgan	Reliable as based on current figures in school
Likelihood to take the subject	0.4	Interview – Gary Morgan Most other subject have around 40% of year group studying, Made the assumption if ICT moved to COMSC then attractiveness would rise in line with other subjects.	Less reliable, as cannot guarantee pupils will want to study COMSC
Average class size	no_of_pupils_taking_course/Total_ClassRooms	n/a	n/a
Students not accommodated	no_of_pupils_taking_course-(25*Total_ClassRooms)	Interview – Gary Morgan If pupils increase over the current figure of 100 then they will be classified as not accommodated for	Reliable as based on current figures in school

Class rooms needed	(students_not_accompodated/25)+Total_Class_Rooms	n/a	n/a
Discrepancy between class rooms needed and available	class_roomsneeded-Total_ClassRooms	n/a	n/a
Cost of room refurbishment	POLICY:_reallocate_rooms*5000	Interview – Gary Morgan £5,000 to refurbish a room for ICT/COMSC	Reliable as based on current figures in school
POLICY: Reallocate rooms	IF(discrepency_between_class_rooms_needed_and_available>=1) THEN(discrepency_between_class_rooms_needed_and_available) ELSE(0)	If there are not enough rooms to accommodate all the pupils then Policy action to get another room kicks in	n/a
Gaining rooms	POLICY:_reallocate_rooms	n/a	n/a
Total Class rooms	4	Interview – Gary Morgan Currently 4 ICT suits	Reliable as based on current figures in school
Loosing rooms	POLICY:_reallocate_rooms	Room is lost as it is now in use	n/a
Teachers needed	(Total_Class_Rooms_Available.students_not_accompodated/25) +Total_Experienced_Teachers	Interview – Gary Morgan Teacher is needed for every 25 pupils	Reliable as based on current figures in school
Discrepancy between teachers needed and available	teachers_needed-Total_ExperiencedTeachers	n/a	n/a
Cost of recruitment	POLICY:recruit_more_teachers*25000	Interview – Gary Morgan £25,000 is the average starting teacher wage	Reliable as based on current figures in school

POLICY: Recruit	IF(discrepency_between_teachers_needed_and_available>=1)	If there is not enough teachers for the number of	n/a
more teachers	THEN(discrepency_between_teachers_needed_and_available)	pupils then policy action to recruit another teacher	
			,
Training	(Total_Experienced_Teachers*(staff_turnover_rate/100))	n/a	n/a
Recruits	+POLICY:recruit_more_teachers		
New teachers	0	Interview – Gary Morgan	Reliable as based on
starting		Very rarely are new teachers hired	current figures in
Starting			school
Teachers in	1	Interview – Gary Morgan	Reliable as based on
training		Made the assumption there is usually some training	current figures in
		in progress, even if it is just maintaining current	school
		teaching level.	
Teachers gaining	Conveyor	Interview – Gary Morgan	Reliable as based on
experience	4	If there are no new teachers starting then training	current figures in
		will just be focused on those currently employed	school
Gaining	2 years transit time	I have made the assumption that it takes two year	Reliable as the
experience		for a teacher to gain real experience, this is a	assumption is made
		common industry standard.	based on accurate
		Evidence of this can be found in the Teach Scotland	data published by a
		document published by the Scottish Government	trusted source.
		which details how salaries are based on how many	
		years' experience. [5]	
		This is a reasonable assumption to make as teachers	
		move one point up the salary scale after each year of	
		teaching.	
Total	4	Interview – Gary Morgan	Reliable as based on
experienced			current figures in
teachers			school
Teachers leaving	(Total_Experienced_Teachers*staff_turnover_rate/100)	n/a	n/a

Staff turnover rate	7.5%	Interview – Gary Morgan 11leaving/150 total staff	Reliable as based on current figures in school
Equipment needed	Total_Class_Rooms_Available.students_not_accompodated +Total_Available_Equipment	n/a	n/a
Discrepancy between equipment needed and available	equipment_needed-Total_Available_Equipment	n/a	n/a
Cost of equipment	POLICY:_purchase_more_equipment*500	Interview – Gary Morgan Cost of each computer is £500	Reliable as based on current figures in school
POLICY: Purchase more equipment	IF(discrepency_between_equipment_needed_and_available>=1) THEN(discrepency_between_equipment_needed_and_available) ELSE(0)	If there is not enough computers for each pupil studying COMSC the Policy action to buy more kicks in	n/a
Gaining equipment	POLICY:_purchase_more_equipment	n/a	n/a
Total equipment available	100	Interview – Gary Morgan	Reliable as based on current figures in school
Losing equipment	POLICY:_purchase_more_equipment	n/a	n/a
Budget	140000	Interview – Gary Morgan Based on last year's budget figures	Reliable as based on current figures in school
Recruitment fraction	0.3	Interview – Gary Morgan Based on last year's budget figures, under the assumption more teachers were needed, if not it would allocated to a different area	Reliable as based on current figures in school, however this spending will fluctuate year to year

			depending on which department has the greatest needs.
Equipment fraction	0.2	Interview – Gary Morgan Based on last year's budget figures, under the assumption more equipment was needed, if not it would allocated to a different area	Reliable as based on current figures in school, however this spending will fluctuate year to year depending on which department has the greatest needs.
Training fraction	0.05	Interview – Gary Morgan Based on last year's budget figures, under the assumption more teachers needed training, if not it would allocated to a different area	Reliable as based on current figures in school, however this spending will fluctuate year to year depending on which department has the greatest needs.
Building fraction	0.1	Interview – Gary Morgan Based on last year's budget figures, under the assumption building work was needed, if not it would allocated to a different area	Reliable as based on current figures in school, however this spending will fluctuate year to year depending on which department has the greatest needs.
Gaining funds	(BUDGET*buildings_fraction)+ (BUDGET*equipment_fraction)+ (BUDGET*recruitment_fraction)+ (BUDGET*training_fraction)	n/a	n/a
Total funds available	0	n/a	n/a

Losing funds	Equipment_Available.cost_of_equipment_purchase+	Interview – Gary Morgan	Reliable as based on
	Total_Class_RoomsAvailable.cost_of_rm_refurb+	Money spent on different areas.	current figures in
	(Total_Teachers_Available.cost_of_recruitment)		school