Marking rubric: Portfolio (Due term 3 week 4 Wednesday 14th August)

Grade		А	В	С	D	E	0	TOTAL
Grade descriptions		Has achieved a extensive level of competence in the processes and skills and can apply these skills to new situations.	A thorough level of competence in the processes and skills. In addition, the student is able to apply these skills to most situations.	An sound level of competence in the processes and skills. SOUND	A basic level of competence in the processes and skills. BASIC	Very limited competence in some of the processes and skills. LIMITED	Not attempted/ Copied and pasted	
		EXTENSIVE	THOROUGH		-		_	
Title/abstract	Investigation and model	5 Sophisticated title given and scientific terms used Sophisticated (one succinct paragraph, 3 statements supported by research. Mostly correct spelling, grammar and punctuation), overview of the project extensive use of scientific terminology.	4 Sophisticated title given and scientific terms used Well constructed (one paragraph, occasional spelling, grammar and punctuation mistakes) overview of project included with good use of scientific terminology. Terms used	3 Appropriate title given and a scientific term used Some details (2-3 sentences, obvious mistakes on spelling, grammar and punctuation) about project included with a some use of scientific terminology.	2 Appropriate title given and a scientific term used Brief outline of project. Many spelling, grammatical and punctuation mistakes. No use of scientific terminology.	1 Simple title used Minimal relevant provided about project	0	WS 4
Purpose/expectation	Investigation AIM and HYPOTHESIS (variables)	5 Correct aim used, starts with "To", correctly links IV and DV together and scientific terms used Correct hypothesis used, correctly links IV and DV together and scientific terms used. "If then "statement used. Correct list of the dependent, independent and controlled variables. Description of 'the control' 5 Correct purpose of the model/invention. Scientific terms used Intention is highly detailed including a chosen audience. concept/s aiming to be conveyed are clear and concise. Scientific language is sophisticated.		3 Correct aim used and a scientific term used. No link between IV and DV Appropriate hypothesis used, links IV and DV together (may not be correct) and a scientific term used	2 Simple aim listed, not link between IV and DV Some variables listed but incorrect.	1 Simple aim used, not appropriate for investigation Expectation given, not correct format	0	
	Model PURPOSE and INTENTION			3 Appropriate purpose of model/invention. Minimal scientific terms used Intention is clear, including audience chosen audience. Concepts aiming to be conveyed are	2 Purpose of model/invention, may not be appropriate. No scientific terms used Intention is simple	1 Simple purpose Intention given lacks detail (vague)	0	/10
Materials/risk assessment	Investigation RISK ASSESS and EQUIPMENT LIST	5 Meticulous list given, all equipment needed is listed with correct quantities All dangers (hazards/risks) identified (minimum 3) and describes how to reduce these dangers. Very detailed	4 Comprehensive list given (1-2 items missing), equipment needed is listed, correct quantities given Most dangers (hazards/risks) identified (minimum 3) and describes how to reduce these dangers. Some detail.	3 Most of equipment needed (3- 4 missing), no quantities given Most dangers (hazards/risks) identified (minimum 2) and attempts to link to how to reduce the danger	2 Most of the equipment needed is listed (missing more than 5), no quantities given Some dangers (hazards/risks) identified and attempts to link to how to reduce the danger	1 Minimal equipment is listed Some dangers (hazards/risks) identified No reduction for dangers given	0	WS 5
<u>OR</u>	Model/Diorama/ Invention RISK ASSESS and BACKGROUND RESEARCH	5 Minimum of two paragraphs including a succinct history on the development of the concept and a justification on why the concept was chosen. Scientific language is extensive and used correctly All dangers (hazards/risks) identified (minimum 3) and describes how to reduce these dangers. Very detailed	4 Minimum of two paragraphs. Including some information on the history of the concept and explanation of why the concept was chosen. Some scientific language is correct and used. Most dangers (hazards/risks) identified (minimum 3) and describes how to reduce these dangers. Some detail.	3 One paragraph of general information relating to the concept and reasons why the concept was chosen. An attempt at using scientific terms Most dangers (hazards/risks) identified (minimum 2) and attempts to link to how to reduce the danger	2 2-3 sentences of background information related to the concept Some dangers (hazards/risks) identified and attempts to link to how to reduce the danger	1 Short statement relating to research Some dangers (hazards/risks) identified No reduction for dangers given	0	

		1	1	(((
Journal/ procedure	Investigation	8-7 6 or more dates included, extremely detailed and specific	-5 5 dates included, extremely detailed and specific	4-3 4 dates included, some detail	2 3 dates included, extremely detailed and specific	1 Less than 3 dates included minimal detail	0	
		Clear and logical method in third person. Need to be in correct order, detailed and in numbered steps. Include how the dependent variable will be measured, along with any other variables are controlled. Include how many times the experiment will be repeated. Scientific terms used and at an extensive level. No use of "I" or "we". (past tense)	Clear and logical method in third person. Need to be in correct order, numbered steps. Include how the dependent variable will be measured, along with any other variables. Links to repetition. Some scientific terms used and at a thorough level. No use of "I" or "we". (past tense)	Logical method in third person. Need to be in correct order, numbered steps. Includes a link to the dependent variable, Links to repetition. Some scientific terms used and at a sound level. Use of "I" or "we" only once (past tense)	Method attempted. In numbered steps. Link to a variable. Minimal scientific terms used and at a basic level.	Method attempted. In numbered steps. Minimal scientific terms used and at a elementary level.		
OR	Mardal/Diamana /	8-7	6-5	1-3	2	1	-	
	Model/Diorama/ Invention	6 or more dates included, extremely detailed and specific	5-5 5 dates included, extremely detailed and specific	4-3 4 dates included, some detail Logical format but has minor	3 dates included, extremely detailed and specific	Less than 3 dates included minimal detail	0	
		Logical format (in correct sequence) Design information is comprehensive and can be easily replicated exactly. All quantities are evident. Detailed and labelled diagrams included. Sophisticated	Logical format (mostly in correct sequence) Design information is clear and can be almost replicated exactly. Quantities given (not all) Includes a labelled diagram. Thorough use of	mistakes. Some parts can be replicated. Some quantities missing. Attempt at using scientific terms. 3 rd person used	Design details attempted and are illogical. Simple diagram given. Not written in 3 rd person. Minimal use of scientific terms.	Lists unclear design details. Some information is irrelevant. Methodology cannot be replicated		/13
		use of Scientific language and written in 3 rd person	scientific language used and written in 3 rd person					/13
Results	Investigation	10-9	8-7	6-5	4-3	2-1	0	
Nesuits	investigation	Includes tables, graphs and	Includes tables, graphs and a	Includes table and graph	Includes table and graph.	Includes table or graph.	0	VVS /
		photographs and/or diagrams.	photograph and/or diagram.	and a photograph and/or	Labels, units, format,	One or two of the		
		Labels, units, format,	Labels, units, format,	diagram. Labels, units,	averages, mostly included	following included:		
		averages, all included and	averages, all included and all	format, averages, all	and some correct.	Labels, units, format,		
		correct.	correct (one or two parts not	included and mostly		averages.		
	Madel/Discussion	10 0	0.7	correct	4.2	2.1		
OR	wodel/Diorama/	3 or more diagrams/nictures 5	o-7 2 or more	c-c 2 or more diagrams/	4-3 A diagram/nicture 2 or	Δ diagrams/nictures 1	0	
	Invention	or more clear labels of parts of	diagrams/nictures 4 or	nictures 3 or more clear	more clear labels of parts	or more somewhat		
		invention/model. Annotated	more clear labels of parts of	labels of parts of	of invention/model and	relevant label and the		
		photos and diagrams	invention/model/diorama	invention/model and the	the aspect of concept it	aspect it relates to		
		P		aspect of concept it relates	relates to			
Discussion	Investigation	10-9	8-7	6-5	4-3	2-1	0	
		Broken into clear paragraphs	Broken into clear	Broken into clear	Broken into some clear	Some discussion of	Ŭ	
		including sub-headings. At	paragraphs. At least one	paragraphs. At least two	paragraphs. At least four	investigation strength		
		least one paragraph each	paragraph each thoroughly	sentences each evaluating	sentences total evaluating	and/or weaknesses		
		extensively evaluating the	evaluating the accuracy,	the accuracy, reliability	two of the following:	and/or suggests		
		accuracy, reliability and	investigation using actual	and validity of the	accuracy, reliability and/or	improvements.		
		using actual data/examples	data/examples Also	actual data/examples Also	investigation using some			
		Also suggests 3 or more	suggests 2 or more	suggests one or more	actual data/examples. Also			
		improvements. Identify trends	improvements. Mentions	improvements 2 or more	suggests one or more			
		in the data. Critically	some trends in data.	possible applications	improvements one or			
		compared with other scientific	Compared with other	mentioned. No mention of	more possible applications			
		research. 3 or more possible	scientific research. 2 or more	trends in data.	mentioned			
		applications explored in depth	possible applications					
		(one paragraph each)	explored.					

	Model/Diorama/	10-9	8-7	6-5	4-3	2-1	0	
OP	Invention	Extensively explains strengths	Thoroughly explains	Soundly explains strengths	Basically describes	Lists strengths and	Ŭ	
		and weaknesses (at least three	strengths and weaknesses	and weaknesses (at least	strengths and weaknesses	weaknesses (at least		
		each) of the model's	(at least two each) of the	three total) of the model's	(at least three total) of the	two total) of the		
		reflection/employment of the	model's	reflection/employment of	model's	model's		
		scientific concept. Explain	reflection/employment of	the scientific concept.	reflection/employment of	reflection/employment		
		how it could be improved (at	the scientific concept.	Describe how it could be	the scientific concept.	of the scientific concept.		
		least three ways) and what	Explain how it could be	improved (at least two	Describe how it could be			
		further research could be	improved (at least two ways)	ways) and what further	improved (at least one			
		conducted to refine human's	and what further research	research could be	way) and restates one or			
		understanding of this concept.	could be conducted to refine	conducted to refine	more important aspects of			
		(one or more way)	human's understanding of	human's understanding of	the concept that was			
			this concept. (one or more	this concept. (one or more	being modelled.			
			wav)	wav)	0			
Conclusion	Investigation	3			2	1	0	
conclusion	investigation	Clear logical scientific summary of findings supported with		Clear summary of findings. Supported by results. States		Summary of findings is	0	
		evidence from results. Link	between dependent and	whether supports or o	pposes the hypothesis.	simple .		
		independent variable. States whether supports or opposes the						
		hypothesis.						
		71						
OP	Model/Dierama/			2		1	0	-
		Extensive explanation of the sur	cress of the model Including a	Description of the success of the model with an		Simple conclusion with	0	/23
	Invention independent statement and evidence to support that statement		indication for reasons why		no evidence		,23	
		JaaBennene statement and er de				no criaciloc		
Bibliography		5	4	3	2	1	Ο	W/S Q
		a comprehensive list of	a list of resources given (at	a list of resources given (at	either 1 resource given or	References are web	U	**55
		resources given (at least 5)	least 4) and referenced	least 2) and referenced	1 source of material listed	addressed only		
		and referenced using Harvard	clearly, only one type of	clearly, one type of				
		or APA format, a variety of	material listed. Referencing	material listed material				
		material listed including	style is attempted.	listed				
		articles, websites and books						/2
								/3
					·	·	Total	
гееараск								
1.								

2.

3.