

Science

2022 Year 9 – New Technologies Exposition Task

Title:		Scienc	;e	Term:	3	Task Ty		Exposit Task	ion	
Weigh	ting of	Task	20%	Marks:	Task will	he marke	ed out	t of 24		
,, eight		I usiri	-0/0	inter Kor						
Date S	et:			Date Due:	Class:					
Student's Name:		me:		Teacher's Name:						
Descri	ption o	f Outco	mes Assessed:							
CW4d	2		l, ethical and environmental consideration related to the development and produced to the deve		ns about					
SC5-9WS:	C5-9WS: presents science ideas and evidence for a particular purpose and to a specific audience, using appropriate scientific language.									
Learnir	ng area	s Assess	ed:							
			Chemical W	/orld / New Technologies						
Assess	ment T	ask:								
			DESCRIPTION	OF TASK (OVERV	/IEW)					
You are required to research background information and present scientific ideas and information for the purposes stated below. You are encouraged to use the attached scaffold to construct evidence-based arguments using appropriate scientific language. This task requires you to research, explain and give your opinion. You will require evidence and references to help justify your opinion. The following questions should be addressed.										
	2	What	is 3D printing?							
)	What	could 3D printing be used for in so	cience?						
	What are the possible side effects of using 3D printing?									
)	What	is stopping 3D printing from being	used now?						
Use the sp	bace on t	the <u>next p</u>	age to start making notes for your	justification.						
			your research provide a justifie will need to write your response						should not	
			<u>aph</u> - what 3D printing is and what 3D printing.	t are and your position on	whether go	vernments	s shou	ld or sho	ould not	
			g arguments that support your pos aragraph should have evidence an				en in a	a separa	te	
<u>c</u>	Concludir	ig paragra	aph – summing up the arguments a	and justifying your positio	n.					

You may handwrite your text or word process it. Students must hand in the both the written text and research scaffold on the due date

Question	Research
What is 3D printing?	
What can 3D printing be	
used for in science?	
What are the possible	
side effects of using 3D	
printing?	
What is stopping 3D	
printing being used now?	
What do you think ?	
Should governments be	
funding research into 3D	
printing for scientific purposes?	
purposes	
Why/Why not?	

ASSESSMENT	CRITERIA:					
Mark	A – Outstanding (4)	B – Very Good (3)	C – Good (2)	D – Satisfactory (1)	E – Insufficient Detail (0)	
What is a 3D printing?	Student defines and describes features of 3D printing and how it is produced in detail.	Student defines and describes 3D printing and how they are produced.	Student defines and describes features of 3D printing.	Student defines what 3D printing is.	Student does not clearly identify what 3D printing is.	
What can 3D printing be used for in science?	Student clearly identifies and describes and examines 3 uses for 3D printing in science.	Student identifies and describes 3 uses for 3D printing in science	Student identifies and describes 2 uses for 3D printing in science.	Student identifies 1 use for 3D printing in science.	Student does not identify any uses for 3D printing in science.	
What are the possible side effects or hazards from using 3D printing?	Student critically examines possible side effects or hazards associated with 3D printing in science.	Student describes 2 or more side effects or hazards associated with 3D printing.	Student identifies 2 or more side effects or hazards with 3D printing.	Student identifies 1 side effect or hazard	Student does not mention any side- effects or hazards from using 3D printing technology.	
What is stopping 3D printing being used now?	Student provides 3 comprehensive reasons detailing what is stopping 3D printing being used now and explains how to overcome this problem.	Student provides 3 reasons as to what is stopping 3D printing being used now	Student provides 2 reasons as to what is stopping 3D printing being used now	Student provides 1 reason as to what is stopping 3D printing being used now	Student does not provide any reason as to what is stopping 3D printing being used now	
Should governments be funding research into 3D printing for scientific purposes?	Student critically evaluates if government funding for 3D printing research should be made and justifies their opinion based on evidence.	Student justifies why/ why not government funding should be made for 3d printing research	Student identifies 2 reasons for government funding into 3D printing.	Student identifies 1 reason for/against government funding	Student does not provide any reason or view regarding government funding of 3D printing.	
References Student produces a formatted bibliography with at least 3 appropriate references		Student produces a formatted bibliography with at least 3 references.	Student produces a formatted bibliography with at least 2 references.	Student produces a bibliography.	Student does not produce a bibliography.	