

Engineering

		<u> </u>
_	1. V	Vhat is engineering?
	2. D	Define the following four branches of engineering. Chemical engineering
	•	Electrical engineering
	•	Civil engineering
	•	Mechanical engineering
	3. Id	dentify and define at least 15 additional disciplines of engineering. Aerospace engineering

otical engineering
Computer engineering
Matarial anaina anina
Material engineering
Process engineering
Environmental engineering
Structural engineering
Power engineering

A	Acoustical engineering	
	Fransport engineering	
_ N	Nuclear engineering	
_		
In	ndustrial engineering	
B	Biological engineering	
— То	Textile engineering	
 E1	Energy engineering	
_		

4.	Explain the general responsibilities of an engineer.
5.	Discuss what type education is required for a career in engineering.
6.	How has the discipline of engineering contributed to society?
7.	On your own or with a group, develop a chart board that outlines a brief history of a famous engineer, highlighting their contributions to society. Prepare and give an oral presentation on your findings.
	Date completed
8.	Read Genesis 6. Discuss the biblical context of this chapter drawing comparisons to the field of engineering.
	Date completed
9.	Identify four specific biblical engineering marvels that illustrate the art and importance of engineering.
	1
	2
	3
	4
	Define the following terms as it relates to the engineering discipline. CAD (Computer Aided Design)
Siı	nulation

Ren	dering
Stea	ady state
Con	estraint
11. V	Vhat is reverse engineering?
_	
_	
12. (Give a real world example where reverse engineering is useful.
	On your own or with a group, complete one of the following engineering projects OR a project at your skill level, Build a paper plane trimming and making adjustments for better flight.
•	Build a compass using a box, a nail and a magnet.
•	Build a miniature dam using popsicle sticks and rocks
	Date completed