

MYP Design Unit: World of Engineering

Criterion A: Inquiring and analyzing

Maximum: 8

At the end of year 1, students should be able to:

- i. explain and justify the need for a solution to a problem
- ii. state and prioritize the main points of research needed to develop a solution to the problem
- iii. describe the main features of one existing product that inspires a solution to the problem
- iv. present the main findings of relevant research.

Name: _____ Period: _____	
IB GRADE for Criterion A: _____ <i>1=52 2=58 3=65 4=70 5=78 6=86 7=94 8=100</i>	
IB GRADE	Level Descriptor
0	The student does not reach a standard described by any of the descriptors below
1-2	The student: <ol style="list-style-type: none"> i. states the need for a solution to the engineering problem X INC R iv. states the findings of research on engineering. X INC R
3-4	The student: <ol style="list-style-type: none"> i. outlines the need (or some requirements) for a solution to a problem ii. states some points of research needed to develop a solution, with some guidance (DCT: X, INC, R, P-) iii. states (or diagrams) the basic features of an existing product that inspires a solution to the engineering problem X INC R iv. outlines some of the main findings of research on 2 or fewer engineering concepts and issues. X INC R
5-6	The student: <ol style="list-style-type: none"> i. explains some of the requirements and/or partially justifies the need for a solution to the engineering problem ii. states and prioritizes the main points of the research needed to develop a solution to the engineering problem, with some guidance (DCT: P/P+) iii. attempts to outlines (and/or draws) the main features of an existing product that inspires a solution to the problem iv. outlines the main findings relevant research on at least 2 engineering concepts & issues with citations attempted.
7-8	The student: <ol style="list-style-type: none"> i. explains the requirements and justifies the need for a solution to the engineering problem ii. states and prioritizes the main points of research needed to develop a solution to the engineering problem with minimal guidance (DCT: P+/H) iii. describes and neatly draws the main features of an existing product that inspires a solution to the problem iv. presents the main findings of relevant research on 2-3 engineering concepts and issues with correct citations.