HSC ASSESSMENT TASK NOTIFICATION

SUBJECT:	**Design & Technology**
TEACHER:	**M.SMITH**
UNIT:	**Innovation and Emerging Technologies Case Study**
VALUE:	**20% weighting**
DATE NOTIFIED:	**23/10/2020 WK2A T4**
DATE DUE:	**20/11/2020 Wk6A T4**

Outcomes:

H2.2 evaluates the impact of design and innovation on society and the environment

H3.1 analyses the factors that influence innovation and the success of innovation

H3.2 uses creative and innovative approaches in designing and producing

H6.2 critically assesses the emergence and impact of new technologies, and the factors affecting their development.

The study of:

- designs and design practice
- factors which may impact on successful innovation
- entrepreneurial activity
- the impact of emerging technologies
- the impact on Australian society
- historical and cultural influences
- ethical and environmental issues
- creativity.

As part of this study, students will complete a case study of an innovation which includes reference to the above factors.

This assessment task requires you completing a case study on an Australian innovation and emerging technologies.

You must prepare and submit the following:

- Case study must be typed, submitted on A4 paper, stapled in the top left hand corner and in a plastic sleeve.

- Choose an innovation that occurred in the past 100 years and produce a case study. You may use

  http://www.gooddesign.org.au

  http://www.powerhousemuseum.com/australia_innovates/

  http://www.csiro.au/resources/

  http://www.tasstudent.com/australianinventionsandinnovations/

  As a starting point for your research.

- The following list of designers is not exhaustive and may help you begin your study:

  - Florence Broadhurst   Mark Newson

  - Dinosaur Designs   Sally Dominguez

  - Ultrasound Technology   Cochlear Implant

- You must research beyond that which is available online. Visit libraries, conducting interviews is recommended.
- Your Case Study should be presented in the following format:

Case Study Scaffold	Suggested word length
• Title page – student name, name of innovation, date due, teacher's name.	n/a
• Contents page.	n/a
• Introduction: **Describe** the innovation – state how the design is innovative and **analyse** the factors which have made this a successful innovation and support your response by referring to your case study.	700
• **Describe** the design and how the design process was used to creatively develop the innovation.	300
• **Analyse** the influence of your researched innovation on Australian society, economy, design, production or manufacturing. (where applicable)	500
• **Analyse** historical and cultural factors that have influenced the innovation. Incorporating technological development.	400
• **Examine** the role of the entrepreneur and **analyse** how they impact upon innovative design success. Where possible relate to your innovation case study	400
• **Critically analyse** how emerging technologies have and will continue to impact upon your chosen innovation.	500
• **Discuss** the role of ethics and the environment during the development of a design innovation. Refer to your case study.	300
• Bibliography	As required

Classroom Learning:

Students have been prepared to effectively complete this task through:

- Learning to (skills)
  - critically analyse successful innovation
  - discuss concepts of quality, innovation and creativity
  - identify and acknowledge historical and cultural influences on design and technological development
  - analyse the impact of emerging technologies on innovation.

- Learning about (knowledge)

  - processes undertaken to develop innovations
  - success of innovation
  - examples of success and failure in design
  - historical and cultural influences on designing and producing technological change
  - emerging technologies

Terms used in the assessing of this task:
Describe: Provide characteristics and features
Discuss: Identify issues and provide points for and/or against
Analyse: Identify components and the relationship between them; draw out and relate implications
Examine: Inquire into
Critically Analyse: Add a degree or level of accuracy depth, knowledge and understanding, logic, questioning, reflection and quality to analysis.

Marking Criteria
Year 12 Design and Technology Task 2 2019 – Innovation Case Study

Through the completion of this assessment task, you have demonstrated the ability to				
E	D	C	B	A
ELEMENTARY ACHIEVEMENT 0-4	BASIC ACHIEVEMENT 5-8	SOUND ACHIEVEMENT 9-12	HIGH ACHIEVEMENT 13-16	EXCELLENT ACHIEVEMENT 17-20
Describe an innovation and discuss some factors which impact upon a successful innovation with assistance.	Describe an innovation and discuss some factors which impact upon a successful innovation.	With some detail describe an innovation and discuss the factors which impact upon a successful innovation.	With detail describe an innovation and clearly discuss the factors which impact upon a successful innovation.	Thoroughly describe in detail, an innovation and explicitly discuss the factors which impact upon a successful innovation.
Describe the design and how aspects of the design process were used to develop the innovation with assistance.	Describe the design and how aspects of the design process were used to develop the innovation.	With some detail describe the design and how the design process was used to develop the innovation.	With detail describe the design and how the design process was used to creatively develop the innovation.	Thoroughly describe the design and how the design process was used to creatively develop the innovation.
Identify an impact of the innovation on Australian society, economy, design, production or manufacturing with assistance.	Identify an impact of the innovation on Australian society, economy, design, production or manufacturing.	Describe the impact of the innovation on Australian society, economy, design, production or manufacturing.	Examine the impact of the innovation on Australian society, economy, design, production or manufacturing.	Analyse the impact of the innovation on Australian society, economy, design, production or manufacturing.
Describe some historical and cultural influences on design with assistance	Describe some historical and cultural influences on design	Describe historical and cultural influences on design	Examine historical and cultural influences on design and technological development	Analyse historical and cultural influences on innovative design and technological development
Describe some characteristics of entrepreneurial activity with assistance	Describe some characteristics of entrepreneurial activity	Describe the influence of entrepreneurial activity on design and innovation	Examine the influence of entrepreneurial activity on successful design and innovation	Examine & analyse the influence of entrepreneurial activity on successful design and innovation
Describe some new technologies, and some factors affecting their development with assistance.	Describe some new technologies, and some factors affecting their development.	Examine the emergence and impact of new technologies, and factors affecting their development.	Analyse the emergence and impact of new technologies, and factors affecting their development.	Critically analyse the emergence and impact of new technologies, and factors affecting their development.
Describe the role of ethics and the environment during the development of a design innovation with assistance	Describe the role of ethics and the environment during the development of a design innovation	Examine the role of ethics and the environment during the development of a design innovation	Examine and explain the role of ethics and the environment during the development of a design innovation	Thoroughly examine and explain the role of ethics and the environment during the development of a design innovation

Mark:

Grade:

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