JOHN EDMONDSON HIGH SCHOOL
Assessment Notification

Faculty: Industrial Arts  Course: Engineering Studies  Year: 12
Assessment Task: Personal & Public Transport Research Task
Assessment Weighting: 30%  Due: Term 2  Week 1  Date: 30/04/2019
Task Type: Hand in Task ✔  In Class Task □  Practical Task □

Outcomes assessed (NESA)
H2.1 determines suitable properties, uses and applications of materials, components and processes in engineering
H3.1 demonstrates proficiency in the use of mathematical, scientific and graphical methods to analyse and solve problems of engineering practice
H4.1 investigates the extent of technological change in engineering
H6.1 demonstrates skills in research and problem solving related to engineering reports

Task Description/Overview
You are to research and prepare a Report and an Oral Powerpoint presentation on one of the following as assigned to you:
A380 Airbus, Queen Mary 2, Bullet Train, Monorail, Ferrari, Audi A4, Boeing Dreamliner, Segway, Bicycle, Maglev Train

Detailed Assessment Task Description
You are to discuss the following:

a) Historical development /5
b) Design features /10
c) Materials used/developed /10
d) Mechanical systems eg. Braking, steering etc /10
e) Computer applications (in use &/or in design/manufacture) /10
f) Electrical systems/motors/gauges /10
g) Environmental issues /10
h) Sociological issues /10
i) References (at least 7) /5

B. Oral Presentation
You are to give a 7 minute ORAL presentation to the class /20

Marks will be given for:
• Audio/visual resources (PowerPoint) – (5)
• Clarity of communication/flow of presentation – (5)
• Preparation and knowledge of topic – (5)
• Use of time limit – (5) – You will lose 1 mark for every 30 secs above 8mins and below 6mins.
### Assessment Criteria

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<tr>
<th>Grade</th>
<th>Description</th>
<th>Mark Range</th>
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| Outstanding (O) | - Accurate & detailed report of all areas to be researched  
                 | - Comprehensive list of references 
                 | - Immaculate powerpoint and oral presentation | 90-100 |
| High (H)   | - Accurate & detailed report of most areas to be researched  
                 | - Comprehensive list of references 
                 | - Highly engaging powerpoint and presentation | 80-89  |
| Sound (S)  | - Accurate & detailed report of some areas to be researched  
                 | - Inadequate amount of references 
                 | - Decent powerpoint but poor oral presentation | 70-79  |
| Basic (B)  | - Inadequate research  
                 | - Inadequate amount of references 
                 | - Basic powerpoint with a poor oral presentation | 60-69  |
| Limited (L)| - Unsatisfactory research  
                 | - Very little references and not to standard 
                 | - Incomplete and unsatisfactory presentation | 0-59   |

### Satisfactory completion of courses

A course has been satisfactorily completed, when the student has:
- Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
- Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
- Achieved some or all of the course outcomes