

# BRACKEN RIDGE STATE HIGH SCHOOL

## YEAR 7/8 Design and Technology – ITD

### Course Overview

| TERM ALLOCATION AND LENGTH | UNIT  | SUB TOPICS  | ASSESSMENT   |
|----------------------------|---|---|--|
| SEMESTER 1.1<br>5 Weeks    | <p><b>Unit One:</b><br/><u>Stadium</u><br/><u>Adventure</u></p> <p>Materials and technologies specialisations</p> <p>Engineering principles and systems</p> | <ul style="list-style-type: none"> <li>• Material and system technologies</li> <li>• Workshop space, plant &amp; equipment</li> <li>• Health and safety</li> <li>• Freehand sketching/ CAD</li> </ul>   | <p>Product including:</p> <ul style="list-style-type: none"> <li>• Research and development log book</li> <li>• Safety induction workbook</li> </ul> |
| SEMESTER 1.2<br>8 Weeks    | <p><b>Unit Two:</b><br/><u>Gift box</u></p> <p>Materials and technologies specialisations</p>   | <ul style="list-style-type: none"> <li>• Material characteristics e.g. timber</li> <li>• Processing methods</li> <li>• Workshop safety</li> </ul>   | <p>Product including:</p> <ul style="list-style-type: none"> <li>• Design folio</li> <li>• Student register safety induction</li> </ul>              |
| SEMESTER 1.3<br>5 Weeks    | <p><b>Unit Three:</b><br/><u>Your marbles</u></p> <p>Engineering principles and systems</p>   | <ul style="list-style-type: none"> <li>• System characteristics e.g. Mechanisms and energy</li> <li>• Structures and/or electronics</li> <li>• Processing methods</li> <li>• Workshop safety</li> </ul> | <p>Product including:</p> <ul style="list-style-type: none"> <li>• Technologies presentation</li> <li>• Student register safety induction</li> </ul> |