COURSE INFORMATION Subject: HARD MATERIALS TECHNOLOGY Head of Subject: MR MARK BERRY

	Year 11	Year 12	Year 13
Course Content	This year level is achievement standard based. Students begin the year by being given an issue in which they are asked to design and produce a foot stool for the home or workplace. This will involve them in undertaking brief development, using planning to guide their development, demonstrating the use of their design ideas to produce a conceptual design and undertake development to make a prototype. This prototype will be accompanied by a Design folio. This work is then re-assessed by the student and a written report is produced on decision making. This is then sent off at the end of the year to satisfy the needs of one external assessment. Students will be given internal assessment dates in their technology yearbook at the beginning of the year along with the full process involved in assessment. In special circumstances, these can be negotiated with the teacher concerned. The external component is optional for those wanting the extra credits. Note this is in the form of a written report.	This year's courses at Year 12 are split into two classes. Those doing achievement standards and those doing Unit Standards. The Unit Standard course is more practically based and designed for those students who may wish to move into a trade outside of school. All students begin the year by drawing and making a saw stool followed by the designing and making a piece of garden furniture while working with an outside facilitator (stakeholder) of their choice. These projects are accompanied by a design folio showing the full development of their brief and ultimate design process of their product. The folio and evidence component of these two courses is very important and is where all the evidence for their standards will be found. Students will be given internal assessment dates in their technology yearbook at the beginning of the year along with the full process involved in assessment. The external component only applies to the achievement standards students and is a written report on their risk management done during the year. This is optional for those wanting extra credits. Note this is in the form of a written report.	At this level, students will need to choose an outside facilitator to work with. This course will be an achievement standard based course. At this level the focus for students is to work with composite materials in the development of something that can be used in recreation. The programme at Year 13 is individual to the student and each student needs to confirm with HOD/ Dean that it fits his/her goals in terms of University Entrance or other further study. Students will be given internal assessment dates in their technology yearbook at the beginning of the year along with the full process involved in assessment. In special circumstances these can be negotiated with the teacher concerned. An external report is also required on the development of a material of their choice. The external component is optional for those wanting extra credits. Note this is in the form of a written report.
Prerequisites	This is an option at Year 11. Students should normally have taken Furniture or Construction in Year 10.	Students should have obtained 16 credits in Level 1 Technology. If not, it is advised that they look at the Year 12 BCATS Course which is a more practical course with credits gained from BCATS Unit Standards.	Students should have obtained at least 16 credits in Level 2 Technology.

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Assessment	**Internal (12 credits)** 92012 1.1 Develop a Materials and Processing Technology outcome for an authentic context (6) 92013 1.2 Develop a Materials and Processing Technology outcome by transforming, manipulating, or combining different materials (6) **External (4 credits)** 92015 1.4 Demonstrate understanding of materials and techniques for a feasible Materials and Processing Technology outcome (4)	**Achievement standards** **Internal (16 credits)** 91354 Undertake brief development (4) 91356 Develop a conceptual design (6) 91357 Undertake development to make and trial a prototype (6) **Optional External (4 credits)** 91358 Technological modelling (4) **BCATS Unit Standards** Construct timber garden furniture and items of basic construction (8) Identify, select, maintain and use hand tools for BCATS Project (6) Make a cupboard as a BCATS project (6)	**Internal (16 credits)** 91608 Undertake brief development (4) 91610 Develop a conceptual design (6) 91611 Undertake development to make and trial a prototype (6) **Optional External (4 credits)** 91613 Demonstrate understanding of Material development (4)
Costs	A basic Materials fee of $80 and then, if students use more expensive or large quantities of materials, this charge will increase.	A basic Materials fee of $80 and then, if students use more expensive or large quantities of materials, this charge will increase.	A basic Materials fee of $80 and then, if students use more expensive or large quantities of materials, this charge will increase.