**What to study for the trail ‘DATTA’ 2016 Product Design and Technology exam**

Bring colour pencils, sharpener, fine liner, pens to write with, pencils to draw, sketch with, ruler

All pages numbers refer to the VCE text except those in italics which refer to pages of the VCCA study, given previously to students as handouts.

**Section A**

1. Definition of Sustainability pp. 127 – 128, 248

2. Revise the **Product Development Process** pp. 351 Know the major stages & the steps with in each stage

3. Revise **the Product Design Process** p. 9 or *page 13 of the study design, previously given as a hand out sheet*

4. Revise the purpose of Australian & International Standards p. 116 & 117, 139 & 140, 347 & 348

5. Identify the 5 Ps of Marketing p. 353 -355

6. Memorize the Product Design factors that influence designers pp 14 & 15, 98 & 99 or *page 14 of the study design, previously give as a hand out sheet - know the topics covered in each parameter*

7. Be able to define attribute and understand what that means and what attributes are p.367 -372

8. Be able to understand the difference between the 3 pillars of sustainability and what areas the 3 pillars cover p. 112 - 116

9. be able to name and describe the various forms of IP protection. You will need to suggest an IP protection for a given product, p.116 & 257

10. Be able to list specific areas of Research & Development (justify them with reference to a particular product)

11. Understand the different forms of market research pp. 334 - 335

12. Describe new and emerging technologies. Be able to describe the benefit to manufactures and designers pp. 344-347

13. Know the different scales of manufacturing. Be able to label them and know the benefits and disadvantages p.359-360

14. Revise prioritizing product attributes. Know what is important to the user, manufacture and the designer. What is the difference? Pp. 370 – 371

**Section B**

1. Revise concept maps and how to do them pp. 22, 26- 27, 416

2. Revise the other **visual methods** you use to explore and define ideas pp. 27 – 29, 418

3. Revise what annotations should include p. 29

4. List processes and be able to draw at least 5 different construction processes p. 232 - 236

5. Know the characteristics a and properties of at least 5 different materials pp. 222 - 226

6. Understand the difference and the purpose of the different drawing styles pp. 26-30, 33, 34, 416- 420

7. The Production Plan, what is this purpose, its benefits, p. 34-37, 420

8. Identify the different forms of obsolescence, benefits and disadvantages of each p. 356 - 358