

Term	Theme	What students will learn	Key assessment	How you can support your child
1	Pebble Project	Categories of woods, composite materials, H&S in the workshop, working with	Woods assessment	Supporting prior knowledge about softwoods/hardwoods. http://www.technologystudent.com/designpro/natwd1.htm
2		composites/hardwood/softwoods, isometric drawing - communication of design	Outcome of final design compared to designs in book	http://www.technologystudent.com/joints/manmade1.html Showing them practical applications of composite materials around the home - carbon fibre, concrete etc.
3	Smart Materials	Learn the 5 smart materials required at GCSE, properties and purpose. Understand graphic products and uses - reflecting the new papers and boards section of the GCSE AQA. Students will make postable merchandise for WWF charity.	Smart materials knowledge assessment. Graphics materials assessment. Overall success of meeting the brief with the outcome.	Encourage home learning and reading using the following links related to the areas in this topic: http://www.technologystudent.com/despro_3/revcards_smart1.htm ! http://www.technologystudent.com/despro2/crdpap1.htm http://www.technologystudent.com/despro2/crdpap2.htm http://www.technologystudent.com/despro_flash/cardpap1.html
4	Egg holders - Alessi	Study the design movement and company Alessi - Build the knowledge to design in the style of them. Work collaboratively with a partner, show creativity and ability to think outside the box	Alessi postcard and assessment - design in the style of. Designers from Alessi	Encourage students to learn at home to build on prior knowledge: http://www.technologystudent.com/pdf14/POSTER_alessi1.pdf
5	Mechanisms	Understand types of motion, CAMs, linkages, mechanical advantage, gears/pulleys and the maths related to this - inline with the new specification.	Motions, linkage, cam assessment of knowledge.	Take apart or try and work out how toys work (mechanisms), rediscover lego and solve problems using it.
6		Make: - linkage card	Key words - 10 words and their meanings Overall outcome of mechanical toy	Do some prior reading to understand different types of motions: http://www.technologystudent.com/forcmom/motion1.html

- wooden mechanical cam toy
(making from plans)