

**Design Technology – Year 2 – Term 2**  
**Unit 2 - Design and Make a Cartoon Clock**  
**Al Jazeera Academy**

**MIDDLE YEARS PROGRAMME: 2009 - 2010**

Topics	Objectives	Areas of Interaction	Assessment Criteria
<p>Recap: Safety</p> <p>What is time?</p> <p>What types of time pieces are there?</p> <p>Why are clocks/watches so popular?</p> <p>What are the advantages / disadvantages of having a time piece?</p> <p>Where do we put our clocks?</p> <p>Why are clocks placed in these places?</p> <p>What are the characteristics of Foam Boards?</p> <p>Recap: -</p> <p>What is the difference between soft and hard wood?</p> <p>What is the difference between coniferous &amp; deciduous trees?</p> <p>How is wood protected?</p> <p>What types of protection are there?</p> <p>Why is wood painted or varnished?</p> <p>What is grain?</p> <p>What is a knot that is found in wood?</p> <p>How do we tell how old a tree is?</p> <p>Why do we evaluate our work?</p>	<p><b>Investigate:</b>            Students will identify the problem to be solved.            They will investigate and formulate a specification.</p> <p><b>Design:</b>            They will generate several feasible designs to meet their specification.            They will select one design and justify their choice.</p> <p><b>Plan:</b>            They will construct a plan, evaluate their plan and justify any modifications to their design.</p> <p><b>Evaluate:</b>            They will: -            Carry out tests to evaluate their design against their specification.            Evaluate their performance at each stage of the design cycle.</p> <p><b>Attitudes in technology:</b>            They will: -            Use materials and techniques safely and responsibly.            Work effectively.            Consider others            Provide evidence of personal engagement.</p> <p><b>Students will develop an understanding of:</b></p> <p>The MYP design cycle.</p> <p>Safe working practices.</p> <p>Designing and making a product.</p> <p>Marking out accurately.</p> <p>Using foam board?</p> <p>Cutting, sawing, chiseling and drilling correctly, and safely.</p> <p>Finishing a product.</p> <p>Evaluating their work.</p>	<p><b>Human Ingenuity:</b></p> <p>Why and how do we create?</p> <p>We create things to make life easier for our selves and others.</p>	<p><b>MYP Design Technology.</b></p> <p>MYP Design Technology assessment criterion:</p> <p>A – investigation (/6)            B – design (/6)            C – plan (/6)            D – create (/6)            E – evaluate (/6)            F – attitudes in technology (/6)</p> <p>Total: 36 points</p> <p>Students will be assessed by:</p> <p>Outcome            Workbooks            Observation i.e.            (attitude &amp; safety)            End of term exam</p>