


Design and Technology Curriculum Overview



Uplands Junior L.E.A.D. Academy

Topic	Year 3	Year 4	Year 5	Year 6
<p>Into the woods Art bot Rich and poor Conflict</p>	<p>DT projects</p> <p>Using the Makey Makey kit (kit which enables us to control computers using everyday objects) create a banana keyboard.</p> <p>Make a games controller using Play-Doh.</p> <p>Writing opportunities:</p> <p>Explanation text- about their design</p> <p>Persuasive text- to seek funding for their project</p>	<p>DT projects</p> <p>Use motors along with other materials to create an Art bot</p> <p>Create circuits and other useful products.</p> <p>Potato power- how potatoes may be used to create electricity that can power LED.</p> <p>Electric car- using mechanisms and circuits.</p> <p>Intruder alarm.</p> <p>Writing opportunities:</p> <p>Explanation text- about their design</p> <p>Persuasive text- to seek funding for their project</p>	<p>Food- cook food consumed by the rich and poor during the different eras.</p> <p>Design and make jewellery worn by rich and poor.</p> <p>Textiles: compare rich and poor</p> <p>Writing opportunities:</p> <p>Food critique</p> <p>Instructions on how to make food</p> <p>Information text</p>	<p>Food- compare food between: Stone age Bronze age Iron age Romans</p> <p>Construction- castles and fortifications.</p> <p>Writing opportunities:</p> <p>Food critique</p> <p>Information text</p> <p>Poems</p>



<p>Transport and Trade Language Earthquake zones and volcanoes Land of the free</p>	<p>Draw and paint images of some wonderful forms of transport.</p> <p>Create models of ancient dhows</p>  <p>Writing opportunities: Recount (diary entry) Instructions Information text</p>	<p>Runes/hieroglyphics</p> <p>Pictographic writing of the Shan Dynasty (Chinese writing)</p> <p>Codices- folded picture book from the Mayans.</p> <p>Writing opportunities: Information text- the evolution of language over time. Narrate a story to the audience</p>	<p>Create a volcano sculpture.</p> <p>Writing opportunities: Stories and other narratives based on the human and physical features studied. Poetry based on volcanic eruptions Explanation text</p>	<p>Dream catchers- inspired by Native American</p> <p>Sculptures- different skyscrapers and examine the engineering behind the different buildings.</p> <p>Writing opportunities: Information text Persuasive text Narrate a story</p>
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<p>The Arts Land of Hope and Glory Achievements and Legacies Beliefs</p>	<p>Make and design ancient Egyptian jewellery.</p> <p>Make and design Ancient Greek plates and vases.</p> <p><u>Textiles:</u> Headdresses of the Mayans.</p> <p>Arabesques repeating patterns of Early Islamic civilisation.</p> <p>Writing opportunities:</p> <p>Non-chronological report</p> <p>Poems</p>	<p>DT projects – mechanisms and construction</p> <p>Food- compare food between United Kingdom and other European countries.</p> <p>Writing opportunities:</p> <p>Newspaper report</p> <p>Letter</p> <p>Instructions</p>	<p>Model of Stonehenge</p> <p>Engineering- examine the inventions during the Roman era.</p> <p>Writing opportunities:</p> <p>Diary entry</p> <p>Write and retell a story</p> <p>Information text</p>	<p>Sculptures- cave</p> <p>Textiles-</p> <p>Writing opportunities:</p> <p>Information text</p> <p>Newspaper reports</p>
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<p>Eurovision Buildings Shake things up and other structures Balloon Blaster</p>	<p>Northern lights 3D display. Create sculptures Writing opportunities: Write and perform poem based on northern lights. Recount Letters</p>	<p>DT projects- Investigating building structures. Explore materials and study building designs. Study building in the pre and post Roman era. Writing opportunities: Recount Write and perform poems. (mead-hall was used for performances.)</p>	<p>DT project: Explore strength and stability of building structures. Angry bird structure using different materials Discover how arches are strong shape. Writing opportunities: Explanation about their design. Persuasive text. Information text</p>	<p>DT project Explore axles and wheels in vehicles along with forces Incorporate design and science to create a bottle car race challenge. Examine the mechanism involved in catapults. Create a crawling caterpillar using cams. Flappy bird toy- pulley power Writing opportunities: Explanation text about their design Persuasive text</p>
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DT topics:

Food and technology

Textiles

Materials

Electrical and electronics

Mechanics

Construction