

Entry Task

Walk through a tunnel and over a bridge in our locality. Discuss the difference in structure, materials and architecture.



Splendid Structures



What to Revisit?

Geography: Y1: aerial photographs, locating features, physical and human features inc. landmarks of Brazil. Y2: mapping, continents, oceans, symbols
Science: Y1: naming and describing materials, distinguishing between objects and the material they are made from Y2: Can you change the shape of all objects?
Y1 DT: Moving parts, joining materials, plan, design & evaluate cycle

Threads

progress, adaptation, community, navigation

Big Question

How has architecture evolved?

Can I identify and name landmarks in my local Liverpool community?

Can I compare the structure of St. John's Beacon to other famous towers around the world?

Can I use aerial photographs to recognise famous landmarks?

Can I identify and name other famous towers and their architects including: Petronas Towers (Cesar Pelli) Christ the Redeemer (Paul Landowski) and Statue of Liberty (Frederic Auguste Bartholdi)?

Can I use simple compass directions, locational and directional language to navigate to the location of landmarks on a map?

Considering the structures we have studied, how have different materials been used?

Can I identify and discuss the uses of different everyday materials?

How are some materials used for more than one thing?
Can materials be adaptable?

Are there objects which can be made from more than one type of material?

Can I compare the suitability of a variety of everyday materials for particular uses?

Can I name and practice cutting & joining techniques using recyclable materials? Can I choose from a range of materials considering their characteristics and providing a verbal rationale for my decisions?

What is a freestanding structure? Can I explain the functions of freestanding structures including a base, a buttress, framework and brick work?

Researching existing structures, can I distinguish between supported and freestanding structures? Who is Adrian Smith and what was he famous for?

Celebration/Evaluation

Can we create a human tunnel of facts for our Y1 children to travel through?

Curriculum Passport Challenge

To visit a landmark of Liverpool and create a sketch labelling and discussing the features I can see.

Key Vocabulary

As a geographer, I will use... Liverpool, landmark, local, aerial photograph, compass directions, north, east, south, west, locational & directional language, near, far, left, right, feature, map, Petronas Towers- Cesar Pelli, Statue of Liberty- Frederic Bertholdi, Eiffel tower- Gustav Eiffel

As a scientist I will use... materials, object, suitability, purpose, use, wood, metal, plastic, glass, brick, rock, paper, cardboard

As a design technologist I will use... structure, function, materials, cutting, joining, constructing, base, buttress, stabilise, centre of gravity, design, evaluate, thicker, thinner, surface, structure, metal, plastic, template, stability, stiffen, strengthen, components, prototype, design criteria, recycle, Adrien D Smith

DRIVER SUBJECTS ARE
SCIENCE, GEOGRAPHY AND
DT