



Prime Learning Challenge: Which materials did they use to build the Trafford Centre?

Breadth of Study

Science- Can they distinguish between an object and the material from which it is made? Can they identify and name a range of everyday materials? (E.g. wood, plastic, metal, water, rock, brick, paper and glass). Can they compare and classify a variety of materials based on their simple physical properties?

More Challenging- Can they describe the properties of different materials using words like transparent, opaque or flexible etc? Can they sort materials into groups and say why they have sorted them in that way? Can they say which materials are natural and which are man made? Can they explore how the shapes of solid objects can be changed? Can they compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses?

More Challenging- Can they explain how materials are changed by heating and cooling? Can they tell which materials cannot be changed back after being heated, cooled, bent, stretched or twisted?

English- Traction Man by Mini Grey

DT- Can they think of ideas and plan what to do next? Can they choose the best materials and explain why they are best? Can they describe their design by using pictures, diagrams and words?

Computing- Coding, using Nearpod and producing a PowerPoint presentation.

Music- Can they respond to different moods in music? Can they say how a piece of music makes them feel and whether they like/dislike it? Can they recognise repeated patterns?

1. How can you classify Traction Man's outfits taking account of the materials they are made of?

2. What are main reasons for choosing materials for different parts of our school and the Trafford Centre?

3. What else can you find that is made of: metal; glass; plastic and wood and what are the advantages and disadvantages of these?

4. Can you respond to different moods in music? Can you say how a piece of music makes you feel and whether you like/dislike it? Can you recognise repeated patterns?

Pre Learning Challenge

Ask: What would you like to find out about materials?

Planning conference held: 20/12/18

5. What did you learn from your visit to Lego Land in the Trafford centre?

WOW activities- Walk around school.

Watching the Lego Movie

Visit to Lego land – Trafford Centre

6 Reflection: Each group will take a different material and give a presentation about their chosen material.