



Pig Heart Boy

Science

What we should already know:

- Describe the simple functions of the basic parts of the digestive system in humans
- Identify the different types of teeth in humans and their simple functions
- Construct and interpret a variety of food chains, identifying producers, predators, consumers and prey
- Describe the changes as humans develop to old age

As scientists we will:

- Identify and name the main parts of the human circulatory system and describe the functions of the heart, blood vessels and blood
- Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
- Describe the ways in which nutrients and water are transported within animals, including humans

Vocabulary:

circulatory, function, heart, blood vessels, vein, artery, valve, muscle, blood, impact, diet, exercise, drugs, lifestyle, nutrients, transportation, aorta, atrium, capillary, pulse, ventricle, resting heart rate

Scientific Enquiry

What we should already know:

- Ask relevant questions and use different types of scientific enquiries to answer them
- Identify one or more control variables in investigations when conducting a fair test
- Identify which type of measurements should be taken
- Take accurate and appropriate measurements using specific, provided equipment
- Record data and results (e.g. using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs)
- Use test results to make predictions
- Report and present findings from enquiries with a given format

As scientists we will:

- Ask relevant questions and use different types of scientific enquiries to answer them
- Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- Recognise which type of practical enquiry is most appropriate to the question or idea being investigated, before planning and carrying out the enquiry
- Take measurements, using a range of scientific equipment, with increasing accuracy and precision
- Identify when to take repeat readings when appropriate
- Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- Use test results to make predictions to set up further comparative and fair tests
- Report and present findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations.
- Identify scientific evidence that has been used to support or refute ideas or argument

Vocabulary:

circulatory, function, heart, blood vessels, vein, artery, valve, muscle, blood, impact, diet, exercise, drugs, lifestyle, nutrients, transportation, aorta, atrium, capillary, pulse, ventricle, resting heart rate



Pig Heart Boy



Application/ Wow:

We will apply our scientific knowledge of the circulatory system to dissect a real life Pig's heart and identify and measure the different parts and record our findings building our resilience.

Be Resilient!

We will build our resilience by dissecting a real life Pig's heart.

Be Creative!

We will use our artistic skills to create detailed scientific sketches of the human heart.

Be World-wise!

Through our reading of Pig Heart Boy we will gain a deep understanding of peoples different opinions on crucial discussion topics of the world.

Art:

What we should already know:

- Engage in research and exploration in the process of initiating and developing their own personal ideas
- Confidently and precisely use sketchbooks for a variety of purposes including: recording observations; developing ideas; testing materials and techniques and planning.
- Confidently investigate and exploit the potential of new and unfamiliar materials (e.g. try out several different ways of using tools and materials that are new to them)
- Use their acquired skills to make work which effectively reflects their ideas and intentions.
- Analyse and reflect on their progress taking account of what they hoped to achieve.

As artists we will #BeCreative by:

- Use sketch books to develop a range of ideas which show curiosity, imagination and originality.
- Systematically investigate, research and test ideas and plans using sketchbooks. (e.g. Sketchbooks show in advance how work will be produced and how the qualities of materials will be used).
- Independently refine their technical skills in order to improve their mastery of materials and techniques
- Independently select and effectively use relevant processes in order to create successful and finished work
- Provide a reasoned evaluation of both their own and professionals' work which takes account of the starting points, intentions and context behind the work
- Know how to describe, interpret and explain the work, ideas and working practices of some significant artists, craftspeople, designers and architects taking account of the influence of the different historical, cultural and social contexts in which they worked.
- Know about the technical vocabulary and techniques for modifying the qualities of different materials and processes.

Vocabulary:

Scale, Horizon, Focal point, Observational, Landscape
Portrait, View finder, Composition