

prospects



Transport Year 3

Essential Knowledge

By the end of this unit children will know...

- The physical and human features of different locations for airport travel.
- How to design, create and evaluate an airport and a flying machine, using different techniques.
- How art has been used to capture images of transport and create own artwork based on this.
- About significant individuals special to the local area that have contributed to developments in transportation.
- How transport has changed the structure of our country.

Launch

A Visit from a Mystery Guest!

Paddington Bear arrives in the classroom with an identity label. Children use clues to find out where he has come from and how he could have got there.

<http://www.paddington.com/>

Explore

Children are to research and understand countries of origin, methods of transport.

Children will compare and evaluate different methods for different journeys.

Children will evaluate buildings and products to create their own designs.

Energise

Trip to a Local Airport

Children will use their prior learning to identify the key features that make an international airport operate successfully.

They will use this new learning to inform their learning for the remainder of the topic.

Celebrate

Flugtag Challenge

Children investigate the force of lift and the design of an aerofoil. In teams, they use this knowledge to progressively refine the design of a flying machine.

Share designs and creation of flying machines using a video which is constructed alongside each stage of the challenge.

Core Subjects:

Links to theme

English

- Recount a trip to a local airport.
- Write instructions for a Road Safety leaflet for younger children.
- Non-chronological report about the features of an airport.

Mathematics

Data Handling

- Road Traffic Survey– using tally charts and pictograms/bar charts.
- Airport Survey– Luggage survey; most popular colour/type of bag.

Measures

- Children measure out design for flugtag challenge.

Money

- Children cost the amount it cost to travel to the airport.

Time

- Children read and interpret bus/ plane timetables.

Science

- Children investigate the forces involved in flight.
- Children investigate the forces involved in moving vehicles.

Transport Year 3: Theme Content

Personal Development

Spiritual

- Compare laws and rules within different cultural systems.
- Caring for others– The Green Cross Code. Ensuring that children are safe.

Moral

- Why is it important to respect different cultures and their traditions?
- How should we be respectful?

Social

- Children will work collaboratively.
- To look at rules and laws within our society, how are they different in other cultures?

Cultural

- How do we adapt to change in our lives placed on us by new locations?
- What is life like in a new culture?
- How different cultures come together and enrich a community.
- What does identity mean?

Foundation Subjects

History, Geography and Citizenship

History

- To research the impact of key historical figures involved in transport.
- To evaluate primary and secondary sources to find out about James Starley and the invention of bicycles.
- To sequence the development of a products design over time.

Geography

- Map skills– To identify key locations and transport routes, focusing on the local area.
- To look at the location of international airports and their key features.
- Investigating the most popular types of transport in a certain locality and comparing them.

Citizenship

- Understand the different rules and laws in other societies.

Art and Design and Design Technology

Art:

- Create a road safety poster.
- Design a topic book cover using wheels.

Design and Technology

- Design and build an airport.

Music, Languages and Physical Education

Dance:

- Create a dance to represent a busy airport.

Computing

- Using tablets and computers to research into different modes of transport.
- Investigate using key websites e.g. www.tagxedo.com
www.taggalaxy.com.

Transport Year 3: Links to National Curriculum Framework

Core Subjects:

English

- Write for a wide range of purposes including the main features identified in reading.
- Plan, write, edit and improve.
- Compose and rehearse sentences orally.
- Use organizational devices such as heading and sub headings.
- Use connectives that signal time, shift attention, inject suspense and shift the setting.
- Read aloud writing to a group or a whole class using appropriate intonation.
- Recall and summarise main ideas.
- Retrieve and record information from non-fiction, using titles, headings, sub-headings and indexes.

Mathematics

- Identify, represent and estimate numbers using different representations.
- Measure, compare, add and subtract lengths. Tell and write the time from an analogue clock– 12 hour and 24 hour clocks.
- Estimate, compare and calculate different measures, including money in pounds and pence.
- Interpret and present data using bar charts, pictograms and tables.
- Solve one step and two step problems.
- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Science

- Notice that some forces need contact between two objects and some forces act at a distance.

Foundation Subjects

History, Geography and Citizenship

History:

- Use evidence to ask questions and find answers to questions about the past.
- Suggest suitable sources of evidence for historical enquiries.
- Suggest causes and consequences of some of the main events and changes in history.

Geography:

- Ask and answer geographical questions about the physical and human characteristics of a location.
- Use maps, atlases and digital/computer mapping to locate countries and describe features.
- Describe how some locations around the world are changing and explain some of the reasons for change.

Citizenship:

- Develop a sound knowledge and understanding of the role of law and the justice system in our society and how laws are shaped and reinforced.

Art and Design and Design Technology

Art and Design:

- Develop ideas from starting points throughout the curriculum.
- Select and arrange materials for a striking effect.
- Create and combine shapes to create recognizable forms.
- Include texture that conveys feelings, expression or movement.
- Give details about the style of some notable artists, artisan and designers.

Design Technology:

- Design with purpose by identifying opportunities to design.
- Cut materials accurately and safely by selecting appropriate tools.

Music, Languages and Physical Education

- Create dances and movements that convey a definite idea.

Computing

- Give examples of the risks posed by online communications.

Transport Year 3: Assessment Opportunities/Tasks within theme

Core Subjects

English

- Children create a set of instructions detailing how to stay safe on the roads.
- Children create a non-chronological report about the features of an airport.
- Children write a recount a trip to a local airport.
- Children write a fictional account of an imagined future transport system.
- Children present their creations, designs and reasoning to an audience, using clear intonation.

Mathematics

- Children independently create their own tally charts, pictograms and bar charts using primary data from field research.
- Children use statistics and data to make generalisations regarding transport preferences.
- Children apply their knowledge of measurement to complete a design and technology challenge and measure to the nearest half a cm.

Science

- Children apply their knowledge of forces to compete against each other and create a flying machine which will be assessed for performance during the Flugtag challenge.

Foundation Subjects

History, Geography and Citizenship

History:

- Children independently sort and organise into chronological order, the landmarks of bicycle design throughout history.

Geography:

- Children use primary and secondary sources to discuss the use of transport to create a class display representing the transport used within different cultures.
- Children independently locate a range of localities using local and world maps, identifying transport links.

Citizenship:

- From their work, children demonstrate an understanding of the importance of respecting different cultures and their traditions.

Art and Design and Design Technology

Art and Design:

- Children independently design their own piece of artwork using a combination of printing techniques and a collage.
- Children use ideas from famous artists to create their own piece based on the movement of transport.

Design and Technology:

- Children work in teams to create designs and produce a final outcome based on a 'Flying Machine' challenge.

Music, Languages and Physical Education

- Children interpret a busy airport by choreographing a series of movements.
- Children perform and peers assess a routine based on a busy airport.

Computing

- Children create their own tagxedo representing key modes of transport in various geographical locations.
- Children independently navigate the internet for key research and assess its validity.