



Home Learning Introduction: Topic 5



We hope you are all keeping safe and well. The following activities are based around the theme of **Let's Move Around!** This links to transport and travel. These may be of help to you, particularly if you are trying to manage several children's needs or have limited access to the Internet.

Page 1: activities – no IT needed

Page 2: web links - if you have internet access and some extension

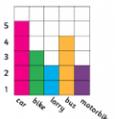
The most important thing is that you are calm for your children and should only do whatever you can manage. Remember that children also learn a lot through play such as Lego and playing games and even through chores such as helping to prepare a meal. Great learning can happen when it's not always adult directed.

The following help with alleviating stress:

- Connect with others – arrange a time for your children to connect with friends (and you too!)
- Exercise
- Do things you all enjoy together
- Don't focus too much on the news
- Share and talk about feelings – all feelings are okay!

Vehicle survey

Observe the vehicles outside your home for 30 minutes. How many different vehicles did you see? Do the same for 30 minutes each day of the week and collect your data on a tally chart. Use your tally chart to make a bar graph. It might look something like this:



Interpreting data

Some children created a graph about their pets, but they have forgotten to put some crucial information on the graph. Can you help them? Click the link below to help.

<https://nrich.maths.org/247>

Vehicle Challenge

While I was looking out of my window 10 cars, 2 motorcycles and a pick-up truck drove by. How many wheels did I see? (Pick-up trucks have 6 wheels) The next day I stayed at the window longer and I saw 22 cars, 7 bicycles and 2 pick-up trucks. How many wheels did I see the next day? Make up a certain amount of cars, bikes and pick up-trucks and give them to a grown up to calculate how many wheels there would be altogether. Remember you must work out the answer yourself first to check that they are correct.

Challenge: Can you make some questions up to answer involving different vehicles? Send them to us and we can share them

Shape challenge

Draw any vehicle using as many 2D shapes as you can? Did you use a square, rectangle, triangle and circle? Did you use any quadrilaterals? Which ones? Did you use a pentagon, hexagon, heptagon, octagon, nonagon or decagon? Design a car for a teddy, doll or toy figure. Measure the toy, then measure and cut up a cereal packet to make the box. What will you make the wheels with? What shape is this? Look at the creative arts section for ideas on making your car. Remember to measure each part correctly to make sure your toy can fit inside.

Diary on seeing the first flight or motorcar

Imagine you had seen the first flight by the Wright brothers in 1903. Or in 1888 you saw Bertha Benz, the first person to drive a long distance in one of the 1st cars.

Remember rules for a diary

- How will you start? Dear...
 - Include what you saw, heard and how you felt
 - Include I, my, we, our (first person)
 - Write as if you were there!
 - Keep the style chatty
 - It should be written in the past tense
- E.g. *What an amazing sight. I wasn't sure if I was seeing things at first. But no, my brother saw it too! There it was on the edge of the long stretch of grass....*



Designing our future travel!

Magical and amazing transport has always been in films. In the *Back to the Future* movie, Marty McFly travelled on a hover board. In *Aladdin*, he travelled on a carpet. In *Bedknobs and Broomsticks* they travelled on a magic bed. In *Chitty Chitty Bang Bang* they travelled in a flying car that could also land on water. Even bikes, cars, buses and boats were once a strange idea in someone's imagination. Imagine you have invented a new or magical form of transport.

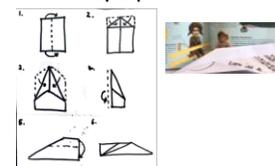
Think about how it will move? How it will be powered? How and when will people use it? Where will it travel – land, water, air?

Design and label your new transport and write a clear description of it detailing all its attributes. Persuade people on how much better it is from the transport we use now. You could also design an advert for the TV or a magazine telling people why they should buy or use it. Be as persuasive as you can e.g. The best, most magical carpet ride in the world!

Up, up and away! The Montgolfier brothers invented the hot air balloon. In 1782, Joseph Montgolfier discovered that hot air from the fire made his shirt float. The first hot air balloon had animals as passengers! Imagine you could go up in a hot air balloon and fly across the world. Write a story about your adventure in the balloon – who and what do you take with you? How does it feel to be up so high? How do houses, trees, birds look different from up there? Where do you visit on your journey? Imagine you could go anywhere, even over the oceans to see some of the Great Wonders of the World. If you have a balloon at home, blow it up and make a basket for it with string and cardboard – a cereal packet will do.



Paper plane creator!



- 1) Fold a piece of A4 paper in half, length ways, then unfold it
- 2) Fold the top 2 corners to make a point
- 3) Fold the edges in again so that they make a sharp tip
- 4) Fold the plane in half again
- 5) Now fold the diagonal edge down to meet the straight edge on each side, making the wings. Your plane is complete!

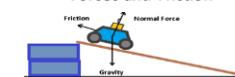
Decorate it and test it! How far can it fly? What happens if you made a smaller plane or a bigger plane? Can you add anything to make it fly faster? **The science:** Gravity pulls everything downwards. But as they move towards the ground, the wings of the aeroplane create higher air pressure underneath than on top. This creates a lift force that counteracts some of gravity's pull and makes them fall

Why are vehicles like that?

Think about all the different modes of transport we have. Choose a question to try and answer from below. Can you draw one of the vehicles, label the parts and explain the answer to the question?

- Why does an airplane have wheels?
 - Why does an airplane have wings?
 - Why does a ship have sails?
 - Why does a car need 4 wheels?
 - Why do most bicycles have 2 wheels not 1?
 - Why does a boat NOT have wheels?
 - Why does a car need a transparent windscreen?
 - Why does a submarine NOT have sails?
 - Why does a hot air balloon NOT have an engine?
 - Why does a truck have more wheels and larger wheels than a van?
- Can you think of some why/why not questions of your own?**

How far can the car go? Forces and Friction



Get a long piece of wood or something else with a smooth surface you can use as a ramp. Now get a toy car or any other toy with wheels. Put it at the top of the ramp and let it go, marking where it stops – how far from the bottom of the ramp did it stop? Keep the height exactly the same but try doing this on a carpet, a shiny floor like the bathroom and any other surface you have in your house. If you have different cars, which go further – the bigger or smaller ones? Why do you think that is? Can you make the cars go faster? Now try putting the ramps at different heights.

Draw a car. Can you label the 4 forces – drive: pushing forward, weight: pushing down, air resistance: pushing backwards and friction: resistance. What about an airplane?

London Transport Quiz

- Some answers are multiple choice!
1. How old is the London Underground? 50 years, 123 years or 157 years?
 2. What is the nickname for the London Underground?
 3. What is the name of the popular blue card used on public transport in Greater London?
 4. What is the top speed that a London Underground tube train can travel? Is it 33 km/h, 64 km/h or 70.3 km/h?
 5. All taxi drivers must have a thorough knowledge of London. So, they must learn and pass the famous 'Knowledge' test. How long does it take to master the Knowledge? Is it: 18 months - 1 year, 2 - 3 years or 3 - 4 years?
 6. Which London railway station is associated with a famous bear?
 7. How many stations does the London Underground serve? Are there: 180, 220 or 270?
 8. On the London Underground map, what colour is used for the London Overground?
 9. How many buses do you think are in London? 8,600, 9,200 or 10,400?
 10. Which is the busiest station? Waterloo, Paddington or Kings Cross?

Answers on the next page!

Transport in time!

The following people are all famous in the world of travel:

- The Wright Brothers 1903: invented the first plane
 - George Stephenson 1825: built the first passenger steam train 'The Rocket'
 - Amy Johnson 1930: was the first female to fly solo from London to Australia
 - Amelia Earheart 1932: was the first female to fly solo across the Atlantic Ocean
 - Bertha Benz 1888: Took the first long-distance drive in the 1st motorcar (invented by her husband)
 - Bessie Coleman 1922: First African-American woman to fly publicly
- Choose 1,2 or more people! Make a timeline to show when and what they did. Draw and illustrate your timeline with an image that shows what they were famous for



Can you add transport to the timeline too? When were bicycles, airplanes, motor vehicles, boats and space shuttles invented?

Can you find your way home?

There are lots of ways to travel to and from your home. Could you plan a trip to and from your home to somewhere else? How will you travel? Is there a bus stop or train station nearby?

City Transport

Large cities, like London have lots of different ways to travel: Cars, taxi's, tuk tuks in West London, bicycles, overground trains, the Tube, boats, The Emirates Airline (cable car from Greenwich Peninsula to Excel Centre in Canning Town) and City Airport planes and electric vehicles.

Can you plan a trip around London or where you live using various modes of transport? (you can include transport that you do not have yet!)

Could you start at your home? Draw a map from place to place showing how you travel and what you can see. Can you include seeing a famous landmarks; going up a tall building; seeing something Royal; using at least two tube stations; getting to a museum, finding a place that has animals or fish; using a bridge; what else?

Topic 5: Let's Move Around!

Transport and Travel

Home Learning



Wellbeing, PSHE and Philosophy for Children:

It took the Wright brothers four years to build their first successful powered machine and then another two years to produce a practical flying airplane. So, what is better: to set a difficult goal and fail to reach it or an easy goal and succeed? Should you always know what you want to achieve before you start? If you think you can do something will you always succeed? Is it ever all right to say, 'I can't do it'? This year, Prime Minister Boris Johnson announced a plan to ban sales of petrol- and diesel-powered passenger cars in the U.K. beginning in 2035. We will then only be allowed to drive electric cars! What do you think of this? Do you think this will be a good thing? Why?



Wheels on the bus!

Can you sing this song: *The wheels on the bus go round and round x3, The wheels on the bus go round and round, All day long.* Can you make up some other verses? Could you sing this in a different style e.g. a rap/pop song? How many other songs do you know about transport – can you get 10? Can you make up actions?



Soap Box Racing - Junk modelling

A gravity racer or soapbox is a motorless vehicle which is raced on a downhill road either against the clock or against other competitors. They are propelled by gravity as they move downhill. Can you make a toy version soapbox out of empty boxes and whatever you have at home?

- Consider the parts of a car:
- Most cars have 4 wheels
 - With at least 2 headlights in the front
 - An exhaust at the back
 - A steering wheel to manoeuvre the car
 - Number plates on the front and back of the car

What else does a car have? Can you make a car from using:

- Cereal boxes
- Milk carton lids /Lego wheels
- Used toilet roll holders
- Single use plastic bottles

Make a ramp and race your soapbox down. Time it – how long does it take? Race against someone else in your family



Transport collage

Can you make a collage of your favourite method of transport – an airplane zooming across the sky, a boat gliding through a lake, a sports car driving through the countryside. Collect lots of different materials e.g. scraps of material, paper, cotton wool, food packets etc. Try and choose ones which have different textures and colours that you need to make it stand out. Look at the work of different landscape artists if possible. The sea or sky can be many different shades of blue.



Topic : Let's Move Around!

These are links to websites – please practise Internet safety with your children whilst accessing these websites. 

Useful websites for parents and carers:	<p>1. In response to the coronavirus lockdown and backed by the Government, The Oak National Academy website, is a new collection of high-quality lessons and online resources. For more information for parents and carers: https://www.thenationalacademy.com/information-for-parents-pupils/</p> <p>2. The National Education Union has published a new website for providing advice, latest news and resources for parents and carers on the Coronavirus crisis: https://coronavirusandschools.org.uk/advice/</p> <p>3. The BBC have now launched daily online lessons via Bitesize, with videos and activities: https://www.bbc.co.uk/bitesize</p> <p>Wellbeing and PSHE</p> <p>1. StarLive is a weekly YouTube series that looks at aspects of parenting, education and home learning: https://www.starline.org.uk/ Free online resources for parents and carers for teaching online safety at home https://beinternetlegends.withgoogle.com/en_uk/parents</p> <p>2. To showcase the Hackney Spirit during lockdown visit: https://www.lovehackney.uk/?medium=email https://www.annafreud.org/what-we-do/anna-freud-learning-network/covid-19-support-our-tips-for-families-children-and-young-people-and-professionals/</p> <p>3. Supporting brilliant book talk at home: https://educationendowmentfoundation.org.uk/news/blog-supporting-parents-to-undertake-brilliant-book-talk/?mc_cid=ea939b0ec7&mc_eid=f897d4828d</p>
Films and TV shows	<p>Cars, Chitty Chitty Bang Bang, Herbie - The Love Bug, Up, Thomas the Tank Engine, Brum, Chuggington, Toy Story4, Planes, Back to the Future, Around the world in 80 days http://www.chittybangbang.com/</p>
Websites Museums	<p>London Transport Museum https://www.ltmuseum.co.uk/learning/activities https://www.transport-museum.com/learning/learning_from_home.aspx Science Museum https://www.sciencemuseum.org.uk/what-was-on/shipping Royal Air Force Museum: https://www.rafmuseum.org.uk/cosford/schools-and-colleges/family-worksheets.aspx Titanic: https://www.bbc.co.uk/bitesize/topics/z8mpfg8/articles/zng8jty</p>

Religious Education

Pilgrimage

What places around the world are special to those who believe in God? Where do they travel to and what do they do when they get there? What do these actions show?
<https://www.bbc.co.uk/teach/class-clips-video/religious-studies-ks2-my-life-my-religion-hinduism-pilgrimage-hinduism/z4ghf4j>
<https://www.bbc.co.uk/teach/class-clips-video/religious-education-ks2-my-life-my-religion-muslim-pilgrimage-haji/zndfctq>
<https://kids.britannica.com/kids/article/pilgrimage/353628>

Literacy

Diary entry:

Bertha Benz https://www.youtube.com/watch?v=JBL_G-C51Dk
<https://www.mercedes-benz.com/en/classic/bertha-benz/>
Wright Brothers: <https://www.youtube.com/watch?v=Qt3pny6cWJM>
<https://www.dkfindout.com/us/history/explorers/christopher-columbus/>

Advert:

<https://www.bbc.co.uk/bitesize/clips/zqximp3>
<https://www.bbc.co.uk/teach/class-clips-video/english-ks1-ks2-how-to-write-a-persuasive-text/zkcfbmd>

Hot air balloons:

https://kids.kiddle.co/Hot_air_balloon

Books

EYFS N and R	Dinosaur Zoom: Penny Dale 	Naughty Bus: Jan and Jerry Oke 	All kinds of cars: Carl Johanson 
KS1 Y1-Y2	Mr. Gumpy's Motor Car: John Burningham  You can't take an Elephant on the bus: Patricia Cleveland-Peck 	Mrs. Armitage on wheels: Quentin Blake  Amelia Earhart: Little People Big Dreams 	The Ultimate Book of Vehicles: Anne-Sophie Baumann 
KS2 Y3-Y6	Amazing Transport: Tom Jackson, Chris Mould  Stephen Biesty's trains: Ian Graham, 	Journey: Aaron Becker  The Boy Who biked the world: Alistair Humphreys 	Nobody owns the sky: Reeve Lindbergh  The story of car: Giles Chapman 

Maths

Conducting a survey: <https://www.bbc.co.uk/bitesize/clips/zgxhvr4>

Making a tally: <https://www.bbc.co.uk/bitesize/clips/zw3r87h>

Multiplying: <https://www.bbc.co.uk/bitesize/topics/z36tyrd/articles/zwghk2p>

Shapes: <https://www.bbc.co.uk/bitesize/clips/zhnvcdm>

<https://www.bbc.co.uk/bitesize/topics/ziv39j6> <https://www.bbc.co.uk/bitesize/topics/zvmsxbk>

Answers to London Transport quiz!

- 157 years old,
- The Tube,
- the Oyster card,
- approx. 64 km/hr,
- 3 – 4 years,
- Paddington
- 270,
- orange,
- 8,600,
- Waterloo – 100.3 million passengers per year

Science

Paper airplanes:

<https://www.stem.org.uk/resources/eLibrary/resource/31161/can-it-fly>

Different vehicles:

Planes: <https://www.natgeokids.com/uk/discover/science/general-science/science-dr-karl-planes-fly/>

Cars: <https://www.bbc.co.uk/teach/class-clips-video/science-design-and-technology-ks2-what-makes-a-supersonic-car-move/zkm6nr4>

<https://www.bbc.co.uk/teach/class-clips-video/design-and-technology-ks2-axles/zmhfvk7>

Boats: <https://www.youtube.com/watch?v=OFRqR00oUcU>

Bicycles: <https://www.youtube.com/watch?v=TM7lEtENjZy>

Forces/friction:

<https://www.bbc.co.uk/teach/live-lessons/terrific-scientific-forces-live-lesson/z7nbkmm>

<https://www.bbc.co.uk/bitesize/topics/zsxxsbk>

Humanities

History of Transport: <https://www.dkfindout.com/uk/transport/history-cars/>

Horrible Histories:

pioneers of transportation: <https://www.youtube.com/watch?v=VJH9EVNBxMc>

History of trains:

<https://www.dkfindout.com/uk/transport/history-trains/>

Famous people:

The Wright Brothers: <https://www.bbc.co.uk/bitesize/topics/zvb76v4/articles/zbmkbk>

Amelia Earhart: <https://www.bbc.co.uk/teach/class-clips-video/ks2-amelia-earhart/zv6k382>

Robert Stephenson: <https://www.nms.ac.uk/explore-our-collections/stories/science-and-technology/model-of-stephensons-rocket/>

Bessie Coleman: <https://www.youtube.com/watch?v=k2DxpTJUsHc>

Bertha Benz: https://www.youtube.com/watch?v=JBL_G-C51Dk

Amy Johnson: <https://www.youtube.com/watch?v=RsNAiKRvtrU>

Timeline of Transport: <https://www.bdm.co.uk/media/learning/library/ks1-transport-timeline.pdf>

Maps and transport: <https://mappinglondon.co.uk/2014/london-100-years-ago/>

<https://www.twinkl.co.uk/resource/t-g-053-ks1-world-map-poster>

<https://www.topmarks.co.uk/Search.aspx?Subject=12&AgeGroup=2>

Transport in London: <https://www.bbc.co.uk/teach/class-clips-video/geography-ks1-ks2-transport-travel-and-landmarks-of-london/zhttsqw>

Creative Arts

Songs: <https://learnenglishkids.britishcouncil.org/category/topics/transport>

Collage: <https://www.bbc.co.uk/teach/class-clips-video/art-and-design-ks1-ks2-creating-a-collage-landscape/zfrfbdm>

Soap Box Derby: <https://www.youtube.com/watch?v=5Z-lSdvJxfM>



Spanish:

<https://www.youtube.com/watch?v=Y0sB0jGy10>

<https://www.youtube.com/watch?v=Oz0UdBara4q>

<https://www.digitaldialects.com/Spanish.htm>