<u>Pilgrim Federation EYFS & Key Stage 1 Curriculum Coverage Ideas & Resources for the Learning Theme:</u> <u>Machines, Inventions & Transport</u>



				Machines 8	Inventions				
EYFS	Science	Art & Design	Computing	D&T	Geography	History	Music	PE	Other links/ideas
Continuous	The Natural	Creating with	Use	Design –	<u>People</u>	Past and	See also	See also	Trip to
provision will	World ELG	Materials ELG	technology to	consider	Culture and	Present ELG	<u>Charanga</u>	<u>RealPE</u>	Thursford to
be in place	Explore the	Safely use and	support	ascetics and	Communities	Talk about the	Schemes of	Schemes of	see the
throughout	natural world	explore a	learning	functionality.	<u>ELG</u>	lives of the	<u>work</u>	work.	traction
the learning	around them,	variety of	understanding		Explain some	people around			engines.
theme based	making	materials,		Make – use a	similarities	them and	<u>Being</u>	Gross Motor	
on PLODS	observations	tools and		range of tools	and	their roles in	<u>Imaginative</u>	Skills ELG	Hethell
(possible Lines	and drawing	techniques,	How to	safely and	differences	society;	and and	Negotiate	engineering
of	pictures of	experimenting	program to	effectively.	between life		Expressive	space and	visit
development)	animals	with colour,	make		in this country	Know some	<u>ELG</u>	obstacles	
		design,	technological	Evaluate – test	and life in	similarities	Sing a range of	safely, with	KS1 STEM
	Know some	texture, form,	equipment	against criteria	other	and	well-known	consideration	events
	similarities	and function;	work.	for purpose of	countries,	differences	nursery	for themselves	
	and			design and	drawing on	between	rhymes and	and others;	British
	differences	Share their	Recognise use	judge.	knowledge	things in the	songs;	Demonstrate	Transport
	between the	creations,	of technology		from stories,	past and now,	Perform	strength,	Museum visit?
	natural world	explaining the	outside of	Adapt as	non-fiction	drawing on	songs, rhymes,	balance and	
	around them	process they	school –	necessary.	texts and –	their	poems and	coordination	CBeebies –
	and	have used; -	computerisati		when	experiences	stories with	when playing;	Maddie do
	contrasting		on and	Construct a	appropriate –	and what has	others, and –	Move	you know? A
	environments,	Make use of	robotics e.g.	vehicle	maps	been read in	when	energetically,	series about
	drawing on	props and		https://teache		class;	appropriate	such as	how machines
	their	materials	Work of	<u>rs.thenational.</u>	Machine and		try to move in	running,	work and how
	experiences	when role	Cynthia	academy/less	inventions		time with	jumping,	things are
	and what has	playing	Breazel.	ons/construct-	that have		music.	dancing,	made.
	been read in	characters in		<u>a-vehicle-</u>	changed our			hopping,	
	class.	narratives and	Store and	6hgp6e?from_	landscape e.g.		Use voice	skipping and	
		stories	retrieve	<u>query=transpo</u>	machines to		creatively.	climbing.	
			information.	<u>rt</u>	destroy				
					(deforestation				

		, demolition		
		vehicles etc.).		

				Machines 8	Inventions				
EYFS (cont.)	Science (cont.)	Art & Design (cont.)	Computing (cont.)	D&T (cont.)	Geography (cont.)	History (cont.)	Music (cont.)	PE (cont.)	Other links/ideas (cont.)
	Linked to D&T	Use drawing,			Machines to	Understand	Play tuned	Master basic	
	the invention	painting,			create –	the past	and untuned	movement.	
	of new	sculpting to			earthwork	through	instruments.		
	machines for	express ideas.			machines and	settings,		Participate in	
	different				other	characters and	Experiment	team games.	
	purposes with	Use a range of			machines/	events	with and		
	movable	media to			vehicles used	encountered	combine	Perform	
	parts.	represent and			to build.	in books read	interrelated	dances and	
		make.				in class and	dimensions of	sequences	
	Materials &				How machines	storytelling;	music.	using patterns	
	their	To develop a			have removed			of movement.	
	properties.	wide range of			geographical	Lives of	Listen to a		
		techniques to			features or	significant	range of music	This could be	
	Looking at	express			created them	Britain's –	recorded and	topic linked if	
	what types of	texture,			– e.g. sea	Joseph Swan	live.	desired.	
	materials	colour, shape,			defences.	and the light			
	machines are	form,				bulb.			
	made from	Pattern and							
	and explore	space.				William Fox			
	why they are					Talbot –			
	made that	Range of				photography			
	way.	artists and				from			
		their work,				negatives.			
		comparing							
		and							
		describing,							
		linking to own							
		work.							

				Machines &	Inventions				
EYFS (cont.)	Science (cont.)	Art & Design (cont.)	Computing (cont.)	D&T (cont.)	Geography (cont.)	History (cont.)	Music (cont.)	PE (cont.)	Other links/ideas (cont.)
		Focuses could include – Leonardo Da Vinci's drawings and works on inventions e.g. helicopters.	Links to philosophy and the idea of computers taking over the world 'I am robot' issue.			Trevithick the steam engine. National and international events of significance. The great exhibition and inventions begun therein. Abraham Darby and the birth of the industrial revolution in Britain. Thomas Telford etc. How has transport made the world more connected?	Recorded music and ways of hearing it linked to technology outside of school – development of musical technology, record players, and cassettes ways of recording and playing back sound.		https://www.bbc.co.uk/cbeebies/shows/bitz-and-bob CBeebies — Catie's Amazing Machines Types of transport (EYFS) https://teachers.thenational.academy/lessons/transportmodel-60wpat?fromquery=transport https://teachers.thenational.academy/units/transport-0359?fromquery=transport

	Machines & Inventions								
EYFS (cont.)	Science (cont.)	Art & Design (cont.)	Computing (cont.)	D&T (cont.)	Geography (cont.)	History (cont.)	Music (cont.)	PE (cont.)	Other links/ideas (cont.)
						https://teache	Focuses could		Glitter Germs
						<u>rs.thenational.</u>	include		– how to use a
						academy/less	comparing a		washing
						ons/how-has-	work recorded		machine
						improved-	in diff ways for		https://teache
						transport-	comparison of		<u>rs.thenational.</u>
						made-the-	sound.		academy/less
						world-more-			ons/glitter-
						connected-	Music from		germs-
						part-1-	machines –		c9j3at?from_q
						c5j68r?from_q	techno music		<u>uery=machine</u>
						<u>uery=transpor</u>	synthesised		<u>S</u>
						<u>t</u>	music e.g.		
							Jean Michel		Explain how
						https://teache	Jarre, Jeff		something
						rs.thenational.	Wayne's war		works (EYFS)
						academy/less	of the worlds.		https://teache
						ons/how-has-			<u>rs.thenational.</u>
						improved-			academy/less
						transport-			ons/to-
						made-the-			explain-how-
						world-more-			something-
						<u>connected-</u>			works-
						part-2-			cmrkee?from
						cmv34t?from_			<u>query=inventi</u>
						<u>query=transpo</u>			<u>ons</u>
						<u>rt</u>			

				Tran	sport				
EYFS (cont.)	Science (cont.)	Art & Design (cont.)	Computing (cont.)	D&T (cont.)	Geography (cont.)	History (cont.)	Music (cont.)	PE (cont.)	Other links/ideas (cont.)
Continuous	The Natural	Creating with	Use	Designing and	<u>People</u>	Past and	See also	See also	Visit transport
provision will	World ELG	Materials ELG	programmable	building with	Culture and	Present ELG	<u>Charanga</u>	RealPE	museum
be in place	Explore the	Safely use and	equipment	moving parts –	<u>Communities</u>	Talk about the	Schemes of	Schemes of	
throughout	natural world	explore a	e.g. bee bots	vehicle	ELG	lives of the	<u>work</u>	work.	Poppy line
the learning	around them,	variety of		models.	Explain some	people around			railway -
theme based	making	materials,	Use software		similarities	them and	Being	Gross Motor	steam and
on PLODS	observations	tools and	programs.	Design, make,	and	their roles in	<u>Imaginative</u>	Skills ELG	diesel engines.
(possible Lines	and drawing	techniques,		evaluate, and	differences	society;	<u>and</u>	Negotiate	
of	pictures of	experimenting	Program and	amend/adapt.	between life in		Expressive	space and	Norwich
development)	animals	with colour,	debug.		this country	Know some	<u>ELG</u>	obstacles	aviation
		design,		Design and	and life in	similarities	Sing a range of	safely, with	museum
	Know some	texture, form,	Simple	build a car or	other	and	well-known	consideration	
	similarities	and function;	programming	other type of	countries,	differences	nursery	for themselves	CBeebies –
	and		using basic	transport.	drawing on	between	rhymes and	and others;	Catie's
	differences	Share their	control.		knowledge	things in the	songs;		Amazing
	between the	creations,		Paper	from stories,	past and now,		Demonstrate	Machines
	natural world	explaining the	code.org (hour	aeroplanes	non-fiction	drawing on	Perform	strength,	
	around them	process they	of code)		texts and –	their	songs, rhymes,	balance and	CBeebies –
	and	have used; -		Hot air	when	experiences	poems and	coordination	Maddie's do
	contrasting			balloons	appropriate –	and what has	stories with	when playing;	you know?
	environments,				maps	been read in	others, and –		
	drawing on			Gyrocopters	-	class;	when		
	their				Maps and		appropriate		
	experiences				atlases –		try to move in		
	and what has				finding and		time with		
	been read in				naming places		music		
	class.				and				
					contrasting				
					localities.				

				Tran	sport				
EYFS (cont.)	Science (cont.)	Art & Design (cont.)	Computing (cont.)	D&T (cont.)	Geography (cont.)	History (cont.)	Music (cont.)	PE (cont.)	Other links/ideas (cont.)
	Designing	Make use of			Using	Understand	Use their	Move	
	investigations	props and			transport	the past	voices	energetically,	
	testing and	materials			around the	through	expressively	such as	
	evaluating –	when role			world	settings,	and creatively	running,	
	concluding	playing			including	characters and	by singing	jumping,	
	and asking	characters in			unique	events	songs and	dancing,	
	further	narratives and			transport	encountered	speaking	hopping,	
	questions	stories.			specific to	in books read	chants and	skipping and	
	(secondary	Use a wide			particular	in class and	rhymes.	climbing.	
	investigations)	range of			locations e.g.	storytelling;		Team games,	
		techniques.			Venetian		Play tuned	small and	
	This could be				Gondolas.	The lives of	and untuned	large	
	done through	Draw and				significant	instruments	apparatus,	
	investigating	paint using			Around the	Britain's and	musically.	body control	
	forces and	own ideas.			world in 80	key historical		work.	
	motion (no				days by Jules	events home	Listen with		
	longer	Be exposed to			Verne could	and abroad.	concentration	This can be	
	compulsory at	significant			be a spring		and	linked to	
	this key stage	works and			board.	Development	understanding	transport	
	but still	artists.				of vehicles and	to a range of	stories.	
	relevant),					transport first	high-quality		
	linked to	Example				flight, records	live and		
	movement of	artists and				and	recorded		
	different types	works:				impressive	music.		
	of vehicles.					achievements			
						e.g. sailing			
						round the			
						world solo.			

	Transport								
EYFS (cont.)	Science (cont.)	Art & Design (cont.)	Computing (cont.)	D&T (cont.)	Geography (cont.)	History (cont.)	Music (cont.)	PE (cont.)	Other links/ideas (cont.)
	Basic physics concepts e.g. flight and sailing — gravity sinking and floating etc. Everyday materials can be explored through design projects for vehicles such as amphibious vehicles, bridge building to take vehicles etc. How are seeds transported? — animals/wind	JWM Turner (train on bridge painting) Fitzwilliam (arrival/depart ure St. Pancras) Art techniques – beyond individual artist's styles examples could be sculpture with moving parts			Can children plot a route on a simple map — for example how they get to school or the route to get to Grandma's house. How would they get from home to Norwich? Where is the nearest? Airport Hospital Beach Shop	Significant Britain's such as Stephenson (Stephenson's rocket). Trevithick – inventor of the steam engine. Development of transport over time locally and nationally – steam railways, from horses to cars etc.	Experiment with, create, select and combine sounds. Using the inter-related dimensions of music. Topic linked songs and musical pieces can be used if appropriate depth available within them.		Travel & Transport https://www. bbc.co.uk/teac h/class-clips- video/history- geography- ks1-travel- transport- index/zxjsydm https://www. hamilton- trust.org.uk/t opics/key- stage-1- topics/chang es-within- living- memory/tran sport/

	Transport								
EYFS (cont.)	Science (cont.)	Art & Design (cont.)	Computing (cont.)	D&T (cont.)	Geography (cont.)	History (cont.)	Music (cont.)	PE (cont.)	Other links/ideas (cont.)
							Example: Pitch and tone could be explored through a 'car noise choir' using voice to represent known sounds – listening		https://www. twinkl.co.uk/ resources/pl anit-history- primary- teaching- resources/pl anit-history- primary- teaching- resources- ks1/planit- history- primary- teaching- resources- ks1/planit- history- primary- teaching- resources- ks1-travel- and- transport

Machines, Inventions & Transport							
Possible links to English:	Possible Links to Maths:						
https://www.booksfortopics.com/transport	Measure and scale (when using maps)						
Fiction:							
Runaway Train – Benedict Blathwayt	The Hundred Decker Bus – Mike Smith - Number						
Mr Gumpy's Motor Car – John Birningham							
Get Off My Train – John Birningham							
Naughty Bus - Jan and Jerry Oke							
Mrs Armitage on Wheels - Quentin Blake							
All Aboard for the Bobo Road - Stephen Davies & Christopher Corr							
Emma Jane's Aeroplane - Katie Haworth & Daniel Rieley							
The Hundred Decker Bus - Mike Smith							
Cycle City - Alison Farrell							
On The Train (Shine a Light) - Carron Brown & Bee Johnson							
Iggy Peck Series – Andrea Beaty							
We Catch the Bus – Katie Abey							
On the Way Home – Jill Murphy							
Duck in the Truck – Jez Alborough							
The Train Ride – June Crebbin							
Non-Fiction:							
Amelia Earhart: Little People, Big Dreams: 3 Paperback – 8 Sept. 2016 by Isabel							
Sanchez Vegara							
All Kinds of Cars - Carl Johanson							
William Bee's Wonderful World of Tractors and Farm Machines - William Bee							
My First Book of Transport – Collins							
Look Inside Things That Go – Jones Lloyd							
Poetry:							
Choo Choo Clickerty Clack – Margaret Mayo							
Dig Dig Digging							
Emergency!							

Zoom Rocket Zoom	
The Smeds and The Smoos – Julia Donaldson	
The Food Train	
The Train - Svebbing	
Song:	
The Wheels on the Bus	