Class: GH/ JS	**Term:** Autumn 2	**Year Group:** 2
Prime Learning Challenge	How do we make the most of the materials around us? What goes on at an airport and a train station? (Geography)	

Past What do pupils already know/understand? Do they have any misconceptions?	**Present** What do pupils want to know/understand? What are they interested in? What motivates them?	**Context** How is this challenge relevant to the needs of your children?
Science In year 1 the children have learned about Everyday Materials. Geography: What goes on at an airport and a train station? **Prior Knowledge** • **Explore the following with your children** ❑ Check how many have travelled by air and ask them to recall their experiences. ❑ All children will have seen aeroplanes in the sky. ❑ Many will have travelled by train. ❑ Let children talk about travel generally; what do they recall? ❑ Some may have toy aeroplanes and train sets. ***Let children record in the 'Prior Knowledge' section of the Knowledge Organiser their prior knowledge on this unit***	Why are some materials are more suitable than others for specific uses? How could glass, wood, plastic, brick or paper be used for certain jobs? Which important people have developed useful new materials? Geography: What goes on at an airport and a train station? **Component 1** Where is your nearest airport and train station? **Component 2** Why do we have to follow certain procedures when travelling by air? **Component 3** What types of jobs are associated with air travel and train travel? **Component 4** Where are some of the main airports in the world? **Reflection Task**	In the science challenge the children will learn about the suitability of different materials for everyday uses. They will also learn how solid materials can be changed by squashing, bending, twisting and stretching. Geography: What goes on at an airport and a train station? Children will learn to use online maps (Google Earth and Google Maps) to discover and explore some of the UK's and the world's major airports. Children will compare large train stations to smaller train station and think about reasons behind this. Children will be learning about the steps needed before passengers are allowed on the plane. Children will be learning about different jobs people do at airports and train stations

By the end of this prime learning challenge…	**Some: More Able**	Children will be able to identify the suitability of different materials including; glass, wood, plastic, brick, metal, cardboard and paper for a specific purpose. They will be able to compare material's properties in order to choose the correct material using their own criteria. They will be able to understand how the solid shape of different materials can be changed by twisting, squeezing, bending, stretching, folding and squashing.
	Most: Core	Children will be able to identify the suitability of different materials including; glass, wood, plastic, brick, metal, cardboard and paper for a specific purpose using a given set of criteria. They will be able to compare material's properties in order to choose the correct material. They will be able to understand how the solid shape of different materials can be changed by twisting, bending, stretching and squashing.
	All: Less able	Children will be able to identify the suitability of different materials including; glass, wood, plastic, brick, metal, cardboard and paper for a specific purpose using a given set of criteria. They will be able to compare material's properties in order to choose the correct material for a job when given a limited choice of materials. They will be able to understand how the solid shape of different materials can be changed by twisting, bending, stretching and squashing.

Pre-Learning How will you make sure you are pitching appropriately?	**Wow!**	**Reflection** How will you reflect & evaluate?
The Focus Education document which sets out the National Curriculum expectations has been used. A pre-learning assessment will be done prior to the start of the unit. Children will also be asked what they already know about the topics and what questions they would like to have answered.	Airport and Trains Wow Day – 19th November 2026	Children will do a post learning assessment to find out how much they have learned. Children will participate in a 'Show it' activity which will allow them to demonstrate their learning.

	Week 1	**Week 2**	**Week 3**	**Week 4**	**Week 5**	**Week 6**	**Week 7**

English	The Lost Property Office	Assessment Week	The Lost Property Office	The Lost Property Office	The Polar Express	The Polar Express	Christmas Activities
Grammar	Test practice		Subordinate conjunctions	Time Conjunctions	Coordinating conjunctions	Commas in a list	Christmas Activities
Handwriting	Practice horizontal join to ascender ole, obe	Practice horizontal join to ascender ook, ool	Practice diagonal join to 'r': ir, ur, er	Practice horizontal join to 'r': or, oor	Introducing the horizontal join from 'r' to ascender: url, irl, irt	Introducing the horizontal join from 'r': ere	Christmas Activities
Spelling	'J' spelt with a 'g'		''c' makes a 's' before e, i and y	kn' and 'gn' make a 'n' sound at the beginning of words	kn' and 'gn' make a 'n' sound at the beginning of words	Challenge Words	Christmas Activities
Sounds Write	Unit 30 i, ui, y	Unit 30 i, ui, y	Unit 32 oe	Unit 32 oe	Unit 33 n	Unit 33 n	Unit 34 er
Maths	Block 2 Addition and Subtraction	Assessment Week	Block 2 Addition and Subtraction	Block 2 Addition and Subtraction	Block 2 Addition and Subtraction	Block 3 Shape	Christmas Activities
Mastering Number	Year 2 week 6	Year 2 week 7	Year 2 week 8	Year 2 week 9	Year 2 week 10	Year 2 week 11	Year 2 week 12
Science	**What would Traction Man use to build our school?** Uses of Everyday materials What do you already know?	**What would Traction Man use to build our school?** Uses of Everyday materials How can you classify your toys by the materials they are made of?	**What would Traction Man use to build our school?** Uses of Everyday materials Which materials are used to build our school?	**What would Traction Man use to build our school?** Uses of Everyday materials **Component 3:** Which materials can be squashed,	**What would Traction Man use to build our school?** Uses of Everyday materials What happens to materials we recycle?	**What would Traction Man use to build our school?** Uses of Everyday materials What do you know now?	Christmas Activities

	What are some common materials found in school?	**Component 1:** Why are some materials more suitable than others for making our toys?	**Component 2:** Why would glass, wood, plastic, brick or metal be used for certain jobs?	twisted or bent according to need?			
History							
Geography	Link it Pre-post learning	**Component 1** Where is your nearest airport and train station? LO: To be able to locate the nearest **airport** to Longmoor Primary	**Component 1** Where is your nearest airport and train station? LO: To be able to locate the nearest **train station** to Longmoor Primary	**Component 2** Why do we have to follow certain procedures when travelling by air? LO: To be able to understand the steps needed before you can board an aeroplane	**Component 3** What types of jobs are associated with air travel and train travel? LO: To be able know the role of different jobs at airports and train stations	**Component 4** Where are some of the main airports in the world? LO: To be able to locate airports around the world	**Reflection** 'Show it'
Music	Nativity singing practice	Nativity singing practice	Nativity singing practice	Nativity singing practice	Nativity singing practice	Charanga – Ho Ho Ho	Christmas Activities
PSHE	Jigsaw Celebrating Differences Boys and Girls Similarities	Jigsaw Celebrating Differences Boys and Girls Differences	Anti-Bullying Week Jigsaw Celebrating Differences Understanding that bullying is sometimes	Jigsaw Celebrating Differences Standing up to bullying	Jigsaw Celebrating Differences Friendship	Jigsaw Celebrating Differences Summary	Christmas Activities

			about differences				
Art/DT Taught over two dedicated art days	**Drawing: Tell a Story** To develop a range of mark making technques	**Drawing: Tell a Story** To explore and experiment with mark making to create textures	**Drawing: Tell a Story** To develop observational drawings	**Drawing: Tell a Story** To understand how to apply expressions to illustrate a character	**Drawing: Tell a Story** To develop illustrations to tell a story	**Drawing: Tell a Story** To develop illustrations to tell a story	Christmas Activities
RE	**What is the good news Christians believe Jesus brings?** What can we say about peace as part of the good news Christians believe Jesus brings?	**What is the good news Christians believe Jesus brings?** How can we show the good news that Christians believe Jesus brings?	**What is the good news Christians believe Jesus brings?** What do Christians believe Jesus showed them about how to pray?	**What is the good news Christians believe Jesus brings?** What are the important parts of prayer for many Christians?	**What is the good news Christians believe Jesus brings?** What is the good news that Christians believe Jesus brings?	**What is the good news Christians believe Jesus brings?** What do we know about the good news that Christians believe Jesus brings?	Christmas Activities
PE	Ball Skills Feet Drumba	Ball Skills Feet Drumba	Ball Skills Feet Drumba	Ball Skills Feet Drumba	Ball Skills Feet Drumba	Ball Skills Feet Drumba	Ball Skills Feet Drumba
Computing	**Online Safety** How can we communicate online?	**Making Games** What are games?	**Making Games** What is a command block?	**Making Games** What is logical reasoning?	**Making Games** What is an algorithm?	**Making Games** What is a program?	**Making Games** What is debugging?
Story Book	Lost Property Office	Assessment Week	Lost Property Office	Lost Property Office	Lost Property Office	The Empty Stocking	The Empty Stocking