



Learning Project 8 - Space

Age Range: Y5/6

Weekly Reading Tasks	Weekly Spelling Tasks
Monday- Task your child with reading unusual things in unusual spaces e.g. a recipe book in the bath. How many unusual spaces can they find over the week?	Monday- Pick 5 Common Exception words from the Year 5/6 spelling list here . Challenge your child to create a word web by finding 5 other related words.
Tuesday- Visit Worldbookonline and login using Username: wbsupport and Password: distancelearn. Your child can read the eBook Human Space Exploration . Ask them to note down unfamiliar words and find out their meanings.	Tuesday- Encourage your child to organise these synonyms from slowest to fastest: quickly, speedily, swiftly, hurriedly & in a flash . Which best describes a rocket launching into space?
Wednesday- Click here for a reading activity about Space Tourism . Challenge your child to read the text in 3 minutes and complete the questions.	Wednesday- Some words contain the letter string -ough- . Can your child use this knowledge to complete these sentences against the clock?
Thursday- Ask your child to listen to or read along to the poem Cosmic Disco . What does your child think is the main idea in the poem?	Thursday- Task your child with identifying any space related words from the poem Cosmic Disco . Can they draw illustrations to represent these words too?
Friday- Encourage your child to research information on past space expeditions here . Which expedition was the most impressive? Why?	Friday- Get your child to proofread their writing from the day. Encourage them to use a dictionary to check the spelling of any words that they found challenging.
Weekly Writing Tasks	Weekly Maths Tasks- Area and Perimeter
Monday- Visit the Literacy Shed for this resource on Broken: Rock, Paer, Scissors or your child can create a comic strip retelling Armstrong's mission to the moon.	Monday- There are a range of interactive quizzes linked to area and perimeter that your child can work through on this website . There are videos to help too.
Tuesday- Ask your child to pretend they have woken up to find an alien at the end of their bed. Write a detailed description of the alien thinking about size, appearance and the sounds it makes. Draw it too!	Tuesday- Find objects around the home and get your child to estimate the area and perimeter and then measure the actual area and perimeter. If you have not got a ruler at home use this online resource .
Wednesday- Get your child to imagine that they are a news reporter, reporting on this alien visit. They can write a newspaper report. Remind your child of the features of a newspaper . If they have access to a PC, they can type up their	Wednesday- Your child could make a map of a newly discovered planet. Provide them with a grid drawn onto paper. Each square on the map represents 5 metres squared (m^2). It must include: mountains $220m^2$, a water source $140m^2$, three

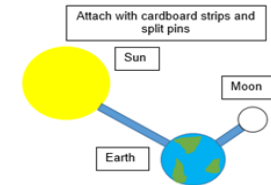


finished report on Word or Google Docs.	islands that must each be between 120m ² and 240m ² .
Thursday- Ask your child to create a travel brochure for a newly discovered planet. Consider: travel time, location, accommodation and things to do and see.	Thursday- Ask your child to have a go at the different activities in this NRICH task . This can be done on paper.
Friday- Your child can write a persuasive letter/job application to NASA asking to be the next astronaut to go into space. Remind them that they must include the skills they have that would make them the best candidate.	Friday- Order the planets based on the number of Earth days it takes for them to orbit the Sun- Saturn: 10,759 days, Earth: 365 days, Mercury: 88 days, Uranus: 30,687 days, Jupiter: 4,333 days, Mars: 687 days, Venus: 225 days & Neptune: 60,190 days.

Learning Project - to be done throughout the week

The project this week aims to provide opportunities for your child to learn more about space. Learning may focus on our Solar System, the Sun and the Moon. It could look at life in outer space from the view of an astronaut and travelling through space.

- **Moon Moves** - Get your child to research the importance of the [Moon](#) to life on Earth. Ask your child to research the movement of the Moon relative to the Earth and create a model of the Earth, Moon and Sun. Here is an idea of how your child could do it.
- **Through Space and Time**- Ask your child to research space exploration history and create a timeline of how people have travelled into space. Get them to think about when the first rocket was launched? When did the first man travel to space? How about the first woman? What other significant events can they add to their timeline?
- **Connect the Dots**- Ask your child to examine the different life stages of a star and explore the names and shapes of some famous [constellations](#). Ask your child to create a poster displaying the different constellations which can be used to teach others. Tell them to make it as creative as possible.
- **Dancing into Space**- Listen to Holst's '[The Planets](#)' with your child. Ask them to select a planet and decide what they think that planet would be like. Get them to create a dance/ set of movements to go with the music which will portray this. Take a video of their dance to share with the family and encourage your child to self-evaluate whilst watching the video. Remember to tweet a video of their dance at [#TheLearningProjects](#).
- **Mission to Space**- Get your child to research the different components of a spacecraft and using their understanding of this, design their own spacecraft. Get them to think carefully about what it needs to include in order for astronauts to survive in space. Can they make a small scale model using resources from around the home? There might be inspiration [here](#).



STEM Learning Opportunities [#sciencefromhome](#)



Mission X – Building a Bionic Hand

- It is difficult and tiring for humans to work in space. Bionic hands that can be remotely operated can help humans work more efficiently in space. Try making a model bionic hand using cardboard, straws, string and elastic bands. You will need to think about how a human hand works to help you with your design. You can find out more [here](#).
- Sign up and access all of the Mission X resources [here](#).



Learning Project 9 - Around the World

Age Range: Y5/6

Weekly Reading Tasks	Weekly Spelling Tasks
Monday- Encourage your child to read the world news section of a newspaper. Discuss with them what they have found out.	Monday- Challenge your child to complete an alphabetical list of cities from around the world. Where possible, include capital cities.
Tuesday- Visit Worldbookonline and login using Username: wbsupport and Password: distancelearn. Select eBooks and your child can read 'Where in the World can I Climb a Tower?' . Ask them to design their own tower, thinking about where in the world it should be, its features and purpose.	Tuesday- Ask your child to record the meaning, an example sentence using the word, associations, synonyms (word with the same/similar meaning), antonyms (word that has the opposite meaning) and a dictionary definition of the following words: appreciate, guarantee and occupy .
Wednesday- Click here for a reading activity about The Lost World . Challenge your child to read the text in 3 minutes and complete the questions.	Wednesday- Can your child complete this prefix challenge from Talk for Writing? Ask your child to choose 5 words and apply them into different sentences.
Thursday- Ask your child to read an age-appropriate story from another culture. This could be from their own collection, Google Books or Oxford Owl .	Thursday- Ask your child to mind map words they associate with Birmingham and words they associate with Johannesburg (see here). This will support a later task.
Friday- Ask your child to summarise a book they've read this week in 100 words. Alternatively, they could summarise the main events in the form of a cartoon strip.	Friday- Pick 5 Common Exception words from the Year 5/6 spelling list . Task your child with choosing 4 words that have something in common and an odd one out.
Weekly Writing Tasks	Weekly Maths Tasks- Multiplication and Division
Monday- Visit the Literacy Shed for this wonderful resource on The Blackhat or your child write a description about their ideal world.	Monday- Get your child to test their times table knowledge by finding the products and factors in this game . Can they work through all of the levels?
Tuesday- Your child can pick a city of choice and create a travel leaflet all about it. Make sure that they include information on: weather, travel time, key tourist spots, accomodation and the local cuisine.	Tuesday- Play multiplication war with your child with a deck of cards. Flip two cards over and multiply. Whoever has the highest product keeps the cards. Ask your child what the inverse division fact would be. Use 3 cards as a challenge.
Wednesday- Listen to Zahra . Discuss what the story is about and how we know Zara is from a different country. Ask your child to rewrite the story of Zahra.	Wednesday- Encourage your child to practise their column multiplication and short division with these missing digit games. Can your child make their own

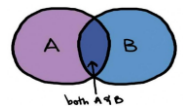


	versions?
Thursday - Use the story of Zahra to ask your child to create an advert to support WaterAid . What persuasive language could they use? How could they make their advert eye-catching?	Thursday (theme) - Choose three or four countries and record the temperature over the course of a week for each of the countries in a table. Your child can draw a line graph showing each country's temperature each day across the week.
Friday - Ask your child to create a poster which will assist younger children to learn about where the continents, particular countries and oceans of the world are. It must provide key facts and an imaginative layout/design to get children to learn where key places are around the world.	Friday (other) - Give your child the digits 3, 7, 8, 0, 6 and ask them to make as many whole numbers as they can. How can they be sure they have found all the potential numbers? After, give them five different digits and ask them to repeat. Do they find the same amount of potential numbers? If so, why could this be?

Learning Project - to be done throughout the week

The project this week aims to provide opportunities for your child to learn more about countries and cities around the world. Learning may focus on different cultures and traditions, famous landmarks, food and clothing.

- **Flags of the World**- **Flags are a national symbol for all countries. Cultures use different symbols and colours on their flags which are meaningful to them and represent their history and people. Ask your child to pick 5 countries and investigate their flags. What symbols and colours have they used? Why are these significant to this country? Can your child create a flag for the UK which they feel represents our culture, history and people? Share at [#TheLearningProjects](#).**
- **Tastes of the World**- Children all around the world eat a variety of food and many of the foods we eat today are inspired by other countries. Can your child research and make a dish from another country which they have not tried before? They could find a recipe, source the ingredients via an online shop and follow the recipe to create a dish for the whole family.
- **International Games**- As part of the London 2012 Olympics a variety of countries were asked to name a traditional game which represented their culture and traditions. These can be [seen here](#). Ask your child to research these games and take inspiration from them to design their own game. Encourage your child to think about how the game is played, how you win and what equipment is needed. Where possible, they should test their game and make any changes needed. Ask them to present their game through writing and pictures. These could be handwritten or digital.





- **From Birmingham to Johannesburg-** Direct your child to think about what it would be like to live in another country. Do they think their life would be the same or completely different? Use the [following clip](#) to compare living in Birmingham to Johannesburg. Ask your child to show the similarities and differences between their life and Nwabisa's life in South Africa. They may wish to show this in a Venn diagram, table or a poster.
- **Exploring the World-** Throughout history many people have explored new places. You can find out about some of them [here](#). Ask your child to pick an explorer from the list or one of their choice. They could map out the places that the explorer visited or they could create a piece of art inspired by the places they visited using digital images as support. They may wish to write a diary entry from the explorer's point of view to share what they have seen and experienced.

STEM Learning Opportunities #sciencefromhome

Engineering Around the World – Telescopes

- The James Webb telescope will be the largest, most powerful and complex space telescope ever built and launched into space in 2021.
- The telescope will be launched into space using a rocket, this means it will have to be strong enough to withstand the vibrations during the launch. Use an egg to represent the telescope and design a rocket that will surround and protect the egg/telescope during the launch.
- For more information and ideas look [here](#).



Learning Project 10 - Music

Age Range: Y5/6

Weekly Reading Tasks	Weekly Spelling Tasks
Monday- During your child's daily reading, play some classical music, rock music, jazz music and pop music. Ask your child to draw an emoji to represent how each music genre made them feel whilst they were reading.	Monday- Pick 5 Common Exception words from the Year 5/6 spelling list . Play a song and stop it at different points. When it stops, one spelling should be selected from a bag and your child must spell it before the music starts again.
Tuesday- Ask your child to find the lyrics to their favourite song and to create some new verses. Can they perform the new verses to the family?	Tuesday- The word rhythm has a silent letter - what other words can your child spell which also have silent letters?
Wednesday- Click here for a reading activity about Music . Challenge your child to read the text in 3 minutes and complete the questions.	Wednesday- Practise spellings on Spelling Frame or practise spelling words with silent letters on this game .
Thursday- Your child can listen or read along to the poem Cat Rap here . Can they write their own version using a different noisy animal?	Thursday- Using the letters CARNIVAL , task your child with listing associated adjectives or verbs that correspond with each letter.
Friday- Visit Audible and let your child choose a book to listen to. Ask them to write a review when they have finished and share it with a friend (remotely).	Friday- Can your child create a musical glossary for the following vocabulary: dynamics, structure, timbre, texture & tempo .
Weekly Writing Tasks	Weekly Maths Tasks- Shape and Angles
Monday- Visit the Literacy Shed for this wonderful resource on Once in a Lifetime or take part in a writing master class .	Monday- Work with your child to find the missing angle in the triangles or around a point .
Tuesday- Listen to <i>A Night on Bare Mountain</i> by Modest Mussorgsky and the inspiration behind it. Ask your child to create a story with the same title that could be told along with the music.	Tuesday- Ask your child to draw a map from their bedroom to the kitchen. Calculate the total degrees of turn involved on the journey. They can repeat this activity for other areas in your home or for their daily walk.
Wednesday- Ask your child to create an information booklet about two pieces of music they have listened to. Include information about the instruments they have heard within each piece and a brief history on the musicians.	Wednesday- Encourage your child to look for and collect 3D objects around the home. For the ones they have selected, get them to name the 3D shape, list the properties (the number of edges, faces and vertices) and draw the net to match.
Thursday- Ask your child to change the lyrics of their favourite song into a short	Thursday- Get your child to practise measuring and reading angles with a



<p>story. Alternatively, they could write and perform their own song.</p>	<p>protractor with this online game.</p>
<p>Friday- Listen to 'Toccata and Fugue in D Minor'. Ask your child to think about what the setting might be and describe the atmosphere. Ask them to create two characters and think about what could be happening. Get them to write a short play script/ piece of dialogue between the characters that would go with this music.</p>	<p>Friday (theme)- Ask your child to create a rhythm by clapping/clicking, e.g. clap, clap, clap, click, clap, clap, clap, click etc. Ask your child to predict what action they would do on the 15th beat. Can they work it out without having to do the rhythm? What about the 20th, 50th, 99th beat? Do they notice any patterns?</p>

Learning Project - to be done throughout the week

The project this week aims to provide opportunities for your child to learn more about music. Learning may focus on famous musicians, listening to and performing music and exploring a range of music genres and instruments.

- **Sound Effects-** Many audio books use sound effects to enhance the retelling of books. Ask your child to think about a narrative that they are currently reading or have read recently. What sound effects would enhance the retelling of the story? Ask your child to source a range of props to help add sound effects and record the retelling of the story with their sound effects. Remember to tweet a video of their retelling using [#TheLearningProjects](#).
- **Carnival Time-** **The Rio carnival is a spectacle of samba, costumes and dance and takes place every year. [Here are some of the pictures from this year's parade.](#) Challenge your child to research the samba inspired costumes and headdresses worn during the parades. Ask them to design, label and make their own mask or headdress taking inspiration from the research completed.**
- **Expression-** [Kandinsky](#) felt that he could express emotions and music through colours and shapes within his painting. Ask your child to create a piece of artwork inspired by their favourite piece of music. Encourage them to listen to the music several times and feel free to draw or paint the emotion they feel at the time.
- **I'm with the Band!-** Ask your child to create their own musical instrument. This could be a cereal box guitar, drums or shakers. They may even want to make a range of instruments to create a family band. Ask your child to decorate their instruments to make them appealing. After this, your child can research which famous musicians perform with their chosen instrument and watch videos of their performance to inspire their own!



- **Music Video Directors-** Using the song your child created for their writing task this week, direct them to think about the sort of music video that they could create to go with it. They could storyboard their ideas and think about whether they need any props or even come up with a dance routine before recording it.

STEM Learning Opportunities #sciencefromhome

Making Instruments

- A kazoo is a simple wind instrument that allows the player to create sound by humming.
- You will need a cardboard tube, square of grease proof paper and an elastic band. Cover the end of the tube in paper and secure it in place using the elastic band.
- Hum a tune into the open end of the kazoo. What happens to the kazoo? What happens to the sound of your voice?
- Learn more about sound by researching how ears work and different ears are adapted to different environments. Find out why elephants have such big ears.
- For more ideas take a look at the full resources [here](#).



Learning Project 11 - Transport

Age Range: Y5/6

Weekly Reading Tasks	Weekly Spelling Tasks
<p>Monday- Encourage your child to listen to an audiobook on their daily walk here. Perhaps they could choose a journey tale?</p>	<p>Monday- Pick 5 Common Exception words from the Year 5/6 spelling list here. Challenge your child to write three clues for each of their words.</p>
<p>Tuesday- Ask your child to look at a car manual and look up any new technical terms. Encourage them to design their own manual for a vehicle of their choice.</p>	<p>Tuesday- Can your child create a transport glossary of these terms: underground, cargo, gangway, pedestrian, terminal & voyage?</p>
<p>Wednesday- Click here for a reading activity about The Titanic. Challenge your child to read the text in 3 minutes and complete the questions.</p>	<p>Wednesday- Using the vocabulary from yesterday, ask your child to apply these words into sentences to show their understanding of the meanings.</p>
<p>Thursday- Ask your child to look at leaflets, newspaper articles or other literature about transport. What does the information tell you about how we use transport?</p>	<p>Thursday- Can your child work out the Year 5/6 words from these bouncing anagrams?</p>
<p>Friday- Your child can learn all about Robert Fulton here. Encourage them to take the quiz about this famous inventor, located at the bottom of the page.</p>	<p>Friday- Task your child with creating a space themed word boardgame. When it's complete, play together as a family.</p>
Weekly Writing Tasks	Weekly Maths Tasks- Volume
<p>Monday- Visit the Literacy Shed for this wonderful resource on Ruckus or your child can make a poster to promote travelling on the Eurostar.</p>	<p>Monday- Watch this online video with your child so they develop an understanding about what volume is.</p>
<p>Tuesday- Ask your child to design their own mode of transport and then get them to create an information leaflet all about it. Ask them to think about how it works, what it looks like and safety procedures whilst on board. What destinations does the vehicle travel to and how long is travel time?</p>	<p>Tuesday- Using sugar cubes, marshmallows, cubes if you have them, encourage your child to make a shape with a volume of 24 centimetres cubed. How many different shapes can they make? Can they draw each shape they make? Will they make more or less shapes if they are given a bigger volume?</p>
<p>Wednesday- Ask your child to create a menu for guests on board their new form of transport. Ask your child to make it as creative as possible and think about the layout. This could be done on Word or Google Docs if they have access.</p>	<p>Wednesday- Ask your child to find the volume and surface area of these rectangular prisms in this online game.</p>



Thursday- Your child can write a job application as someone who would like to work on board this new mode of transportation. Get them to think about the skills they need for the job. [Here is an example.](#)

Thursday (theme)- Your child could plan a day out for the family at a location of choice. Think about the different ways they could travel to the location. Get them to work out the cost of using the different transport modes, how long each would take and get them to think about the most environmentally friendly mode of transport.

Friday- Your child could research the famous explorer [Christopher Columbus](#), how he travelled and his voyages. Ask your child to create a journey story to retell this. This could be written in the first person as Columbus himself.

Friday (theme)- Encourage your child to draw an aerial map from their house to a location of choice (this could be school, the shops, the park etc). Ask them to write a set of directions on how to use the map using positional language.

Learning Project - to be done throughout the week

The project this week aims to provide opportunities for your child to learn more about transport. Learning may focus on modes of transport, transport in the past, the science behind transport, road safety and how to be safe around water.

- **Is it a Bird? Is it a Plane?-** Direct your child to choose a major city from each continent and look at the population's primary mode of public transport, e.g. rickshaws and Skytrain in Bangkok, Asia, the Tube in London, Europe etc. Ask them to create a fact-sheet showing each city's most popular mode of transport and decide which is their favourite, providing reasons for their opinions.
- **Creativity in the Underground-** Many of the London Underground tube stations have their own unique, [tiled designs](#). Direct your child to think of their own London Underground tube station name and create a tile design to accompany it. They could simply draw the design using crayons, felt tips or paint. Alternatively, they may choose to represent the design in the form of a collage, cutting out their own tiles of paper, newspaper, magazines, cardboard, or whatever you have access to at home. Remember to tweet a photo of their design using [#TheLearningProjects](#).
- **From Horse-Drawn Cart to Jumbo Jet-** Direct your child to select 10 modes of transport from throughout history using this [link](#). Ask them to research the modes of transport and present them on a timeline, writing a description for each one, explaining what it was and who would have used it - bonus points for including the inventors!
- **Faster Than a Speeding Bullet...Train-** The Shanghai Maglev, also known as Shanghai Transrapid, is currently the fastest train in the world, running between Shanghai and Beijing in China. Challenge your child to be just as speedy and complete the following 5 activities as fast as possible: Star jumps, tuck jumps, press-ups, squats and lunges. Ask them to record how many repetitions of each activity they can perform in 1 minute. Can they beat their personal best? Challenge them to record their heart rate (beats per minute) after each activity. **Recommendation at least 2 hours of exercise a week.**





- **Make and Do - Make it Go!**- Support your child to try this [hover balloon activity](#). You will need the following equipment: CD, bottle top with push/pull closure, like those on some sports drinks or water bottles, blu-tack or glue and a balloon. Alternatively, they could have a go at creating a [baking powder powered boat](#). You will need the following equipment: empty water bottle, baking powder, kitchen roll or tissue, scissors, straw, vinegar, sellotape. If you don't have access to this equipment, your child can watch and read about the experiments and can discuss with you their favourite, providing reasons for their opinions.

STEM Learning Opportunities #sciencefromhome

Brilliant Boats

- Watch [this video](#) about boat designs.
- Try creating your own boat designs and testing them. You might like to use something smaller and more waterproof than a bag of sugar for testing though!



Don't forget that as well as these 'Learning Projects', you can also access the following recommended resources...

- [BBC Bitesize](#) - Lots of videos and learning opportunities for all subjects. Brilliant.
- [Oak National Academy](#) – Daily timetabled lessons. Brilliant.
- [Times Table Rockstars](#), [Education City](#), [Discovery Education Espresso](#) and [Coding](#) Your child can access all of these with their school logins.
- [CEOP/Think You Know](#) – IT/safety activities
- [Stay Safe Partnership](#) – lots of information and activities from LCC Stay Safe Partnership
- [White Rose Maths](#) online maths lessons. Watch a lesson video and complete the worksheet (can be downloaded and completed digitally).
- [Mastery Mathematics Learning Packs](#). Take a look at the mastery mathematics home learning packs with a range of different activities and lessons.
- [Talk for Writing Home-school Booklets](#) are an excellent resource to support your child's speaking and listening, reading and writing skills.

The Learning Projects are based on the **National Curriculum expectations** for the key stage which your child is in. It may be that your child finds the tasks set within the Learning Project for their year group too simple. If this is the case, then we suggest that your child accesses the Learning Projects which are set for the key stage above. Equally, if the projects are too challenging, then we advise that your child accesses the projects for the key stage below.

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