



# Home Learning Learning Projects

W/C 15/06/2020: Space

## Year 5

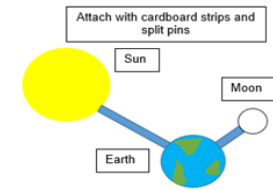
Weekly Reading Tasks	Weekly Spelling Tasks
<p><b>Monday-</b> Task your child with reading unusual things in unusual spaces e.g. a recipe book in the bath. How many unusual spaces can they find over the week? Add some pictures into the Reading Forum on dB Primary.</p>	<p><b>Monday-</b> Pick 5 Common Exception words from the Year 5/6 spelling list <a href="#">here</a>. Challenge your child to create a word web by finding 5 other related words.</p>
<p><b>Tuesday-</b> Use these texts (<a href="#">hard</a> or <a href="#">harder</a>). Ask them to choose which parts of the solar system they want to explore more. Note down unfamiliar words and find out their meanings. Then they could complete <a href="#">these</a> fun activities provided by NASA (the United States space agency).</p>	<p><b>Tuesday-</b> Encourage your child to organise these synonyms from slowest to fastest: <b>quickly, speedily, swiftly, hurriedly &amp; in a flash</b>. Which best describes a rocket launching into space? Can they come up with any others to add?</p>
<p><b>Wednesday-</b> Click <a href="#">here</a> for a reading activity about <b>Space Tourism</b>. Challenge your child to read the text in 3 minutes and complete the questions.</p>	<p><b>Wednesday-</b> Some words contain the letter string <b>-ough-</b> Can your child use this knowledge to complete <a href="#">these sentences against the clock?</a></p>
<p><b>Thursday-</b> Ask your child to listen to or read along to the poem <a href="#">Cosmic Disco</a>. What does your child think is the main idea in the poem? Can they write 5 questions for the poet?</p>	<p><b>Thursday-</b> Task your child with identifying any space related words from the poem <a href="#">Cosmic Disco</a>. Can they draw illustrations to represent these words too?</p>
<p><b>Friday-</b> Encourage your child to research information on past space expeditions <a href="#">here</a>. Which expedition was the most impressive? Write 2 PEE paragraphs to explain why.</p>	<p><b>Friday-</b> Get your child to proofread their writing from the day. Encourage them to use a <a href="#">dictionary</a> to check the spelling of any words that they found challenging. Have they used powerful evidence?</p>

Weekly Writing Tasks	Weekly Maths Tasks
<p><b>Monday-</b> Visit the Literacy Shed for this resource on <a href="#">Broken: Rock, Paper, Scissors</a> choose which activities you and your child would like to complete or your child can create a comic strip retelling <a href="#">Armstrong's</a> mission to the moon.</p>	<p><b>Monday-</b> White Rose Maths activity – Understand percentages Login to <a href="#">TT Rockstars</a> and complete 5 garage games.</p>
<p><b>Tuesday-</b> 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. What exciting sentences could be used? Think about use of figurative language to describe it. Draw it too!</p>	<p><b>Tuesday-</b> White Rose Maths activity – Percentages as fractions and decimals Login to <a href="#">TT Rockstars</a> and complete 5 studio games.</p>
<p><b>Wednesday-</b> Get your child to imagine that they are a news reporter, reporting on alien visit from yesterday. They can write a newspaper report. <a href="#">Remind your child of the features of a newspaper.</a> If they have access to a PC, they can type up their finished report on Word or Google Docs.</p>	<p><b>Wednesday-</b> White Rose Maths activity - Adding decimals with the same number of decimal places Check <a href="#">Mathletics</a>- 3 games will be added. Make sure your child completes any assigned games over the week.</p>
<p><b>Thursday-</b> Ask your child to create a travel brochure for a newly discovered planet. Consider: travel time, location, accommodation and things to do and see. Try to use <a href="#">DAFOREST</a> to persuade your audience.</p>	<p><b>Thursday-</b> White Rose Maths activity – Adding decimals with a different number of decimal places Login to <a href="#">TT Rockstars</a> and complete 5 soundcheck games.</p>
<p><b>Friday-</b> 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 <a href="#">skills</a> they have that would make them the best candidate.</p>	<p><b>Friday-</b> Use this day to consolidate the week's learning and to practice times tables using some of the links below. Login to <a href="#">TT Rockstars</a> and complete 5 festival games.</p>

## 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 share a video of your dance at [year5@pinnerpark.harrow.sch.uk](mailto:year5@pinnerpark.harrow.sch.uk) or on dB Primary.
- **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

### **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](#).

### Additional learning resources parents may wish to engage with

- [BBC Bitesize](#) - Lots of videos and learning opportunities for all subjects.
- [Classroom Secrets Learning Packs](#) - Reading, writing and maths activities for different ages.
- [Twinkl](#) - Click on the link and sign up using your email address and creating a password. Use the offer code UKTWINKLHELPS.
- [White Rose Maths](#) online maths lessons. Watch a lesson video and complete the worksheet (can be downloaded and completed digitally).
- [Times Table Rockstars](#) and [Mathletics](#)- Your child can access both of these programmes with their school logins. On Times Table Rockstars, children should aim to play Soundcheck for 20 minutes daily.
- IXL online. Click here for [Year 5](#). There are interactive games to play and guides for parents.
- [Mastery Mathematics Learning Packs](#). Take a look at the mastery mathematics home learning packs with a range of different activities and lessons.
- [Y5 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.

If your child requires more of a challenge, or you believe that there are some gaps in their learning then [Century Tech](#) is a fantastic resource that is currently free for home learning. The app is designed to address gaps and misconceptions, provide challenge and enables children to retain new knowledge. It uses artificial intelligence to tailor the learning to your child's needs. Sign up [here](#).

### dB Primary- a place to be together

- Visit [DB Primary](#) throughout the week to post pictures, videos or blogs about what your child has been learning at home. Share with their class on their page by clicking on 'communities.' Then in 'forums' choose which subject the work belongs in and then 'reply' to add your child's work. This is a special place where we can all still learn together (videos showing how to do this have also been emailed to the children).
- Various activities have been assigned on dB Primary- these range from spelling to computing to topic related games. Your child will find these on their home page as soon as they sign in to dB Primary.
- Children can also email each other or their teachers just to catch up or ask any questions.
- E-safety: posts are approved by your child's teacher and emails are filtered by dB Primary to protect the children. Children can also press the 'golden whistle' which informs their teacher if they feel uncomfortable or upset by anything they read. Children have also been assigned e-safety activities to work through on their home page to remind them of things to remember when they are online.

## Science Experiment

### HOW TO MAKE ICY ORBS

This simple but effective experiment creates spectacular results: simply make a ball of ice, add salt and food colouring, and watch fabulous patterns paint the ice. You will need to be careful, though; adding salt to ice makes the ice even colder – a mixture of salt and ice can get as cold as  $-21^{\circ}\text{C}$  ( $-6^{\circ}\text{F}$ ), so make sure you don't touch the ice when it is mixed with the salt.

#### WHAT YOU NEED



Food colouring (the more colours, the better)

Balloon



Large bowl



Salt



Scissors

You will also need a freezer and a water tap



If there is space in your freezer, put the water-filled balloon in a bowl, so it keeps its round shape.

**1** Place your balloon's opening over the end of a cold-water tap. Turn the tap to a trickle and half-fill the balloon with water. Remove and tie off the balloon – ask an adult for help if you need it. Put the balloon in the freezer and leave it overnight.

If the ice feels too cold for your hands, wear some gloves.



**2** The next day, remove the balloon from the freezer. It should feel hard because the liquid water has turned into solid ice. Cut the tied end off the balloon, and peel off the rubber.



**3** Put your ball of ice back in a bowl or on a tray. Sprinkle a little salt on top of the ice ball. Watch the ice melt where the salt grains land, peppering the icy surface with lots of tiny holes.



**4** Dribble some food colouring onto the ice. The colouring will mostly sit on top of the solid ice, but it will quickly dissolve in the melted ice to make coloured rivers that stream down the side.

**5** To make your icy creation look even more beautiful, add different food colourings. And if you shine the light from a torch or lamp under one of your icy creations, you can get a really spectacular effect!



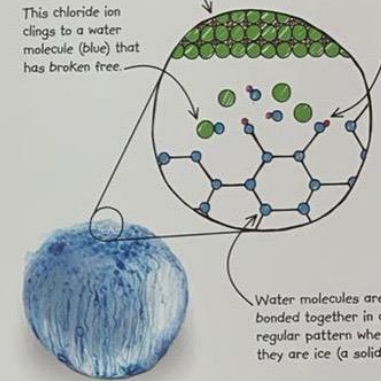
### HOW IT WORKS

Salt grains are crystals, and are made of two types of particle – sodium ions and chloride ions – joined together. When salt is sprinkled on an icy orb, the ions break up the regular arrangement of water molecules in the ice. Once the water molecules are broken apart, the ice becomes liquid. Since sodium and chloride ions attach to the water molecules, the water molecules cannot bond together unless the temperature becomes very cold again.

Salt crystals are made of sodium ions (purple) and chloride ions (green).

This sodium ion breaks apart the ice, turning it into water.

This chloride ion clings to a water molecule (blue) that has broken free.



Water molecules are bonded together in a regular pattern when they are ice (a solid).

### REAL WORLD SCIENCE DE-ICING ROADS



In freezing temperatures, specially designed lorries spread salt on major roads and pavements to prevent accidents. The salt melts any snow or ice that is already on these surfaces, and also prevents water from turning into ice. This is because adding salt lowers the freezing point of water.

Don't forget to subscribe to Mr Withey's YouTube channel for his 'how to' videos and worksheets which support the experiment!

<https://www.youtube.com/channel/UCdJRKydxohrpDs6mIEy248g>

Add any of your learning or final products into the 'Science Forum' on dB Primary!