

Year 2 - Learning @ Home- SCIENCE WEEK

Term 3, Week 6



It is very important that the learning at home program maintains a harmonious family life. If things aren't working out on any given day, please take a break or stop for the day. We are here to help and support you - please let us know if you are having any problems. Remember, you are not alone!

Webex Catch-Up Details

Start Time: 10am

Below are the login details for each class:

Class	Meeting Number	Password	Web Browser Link
2AS Miss Shacklock	165 899 3402	NLPS	https://educic.webex.com/educic/j.php?MTID=m6bdc8c4adb8e2215d5ad22e701c5d592
2HJ Heidi	165 973 0585	NLPS	https://educic.webex.com/educic/j.php?MTID=m1beb45a1ec82375867fe84afd6d4e059
2DO Denise	165 632 5176	NLPS	https://educic.webex.com/educic/j.php?MTID=m626c43ada71da9eca79745f33dc7751b
2TN Tarsh	165 779 0990	NLPS	https://educic.webex.com/educic/j.php?MTID=m0bc81d8fb6f6c4d97948f428bd9f3886

This week, we will again be conducting **small reading groups**. These sessions will immediately follow on from the class check in so no additional Webex link is required. Please find the schedule for these groups below. If your child is unable to attend their group session on the scheduled day, please let us know.

In addition, we will be running an optional 'task review' session for students who would like to reflect on and ask any questions about their work. These will be conducted at 12:30 each day using the same link as for the morning check-ins (above).

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
2AS	Amelia, Luke, Ruby, Archer, Damon	Arya, Maya, Matilda, Daniela	Oscar, Baker, Asha, Sophie	Lukan, Emerson, Monty, Summer, Liam	Ahmed, Ali, Chloe, Kobe
2HJ	Lola, Tallulah Xander	Harley, Ethan, Zara, Zayana, Zoe R., Nina	Phoebe, Zoe F. , Oliver, Jackson, Evie, Hudson	Oscar, Patrick, John	
2DO	Keagan, Isla, Milly, Ishmail	Anne, Yasmin, Archie, Long, Georgia Wu	Georgia Walsh, Ava, Ellie, Zoe, Henry	Roonika, Zara, Nik	Mariam, Jaxon, Nasser
2TN	Oliver, Bella, Eva S, Spencer, Sophie	Max, Ari, Khaldoun, Clara	Bekkar, Leo	Eva H, Maggie, Flynn, Zayn, Talia, Elena	Amelia, Eve, Dev, Lily

Day 1

Reading

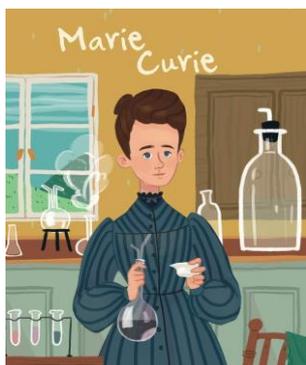
FOCUS: DIVING INTO SCIENCE AND TECHNOLOGY

Daily Practise (Independent Reading):

Students read their take home books and/or other Just Right books they may have at home.

Active Learn is also available for use at home: [ActiveLearn: Login \(activelearnprimary.com.au\)](https://activelearnprimary.com.au)

Students have their login details from the last lockdown.



Task: Identifying facts from a factual video clip

Task: <https://www.youtube.com/watch?v=aowghaUvP6Q> Marie Curie

After watching the video on Marie Curie write down some amazing facts about this very famous scientist. You may need to rewatch sections of the video to find your facts.

If you were to give Marie Curie a values award from our school what would the award be for (respect, responsibility, resilience, compassion, critical thinking) ? Please explain why you chose that award for Marie Curie by talking about her achievements or how she overcame difficulties to become one of the most famous scientists in the world.

Writing



FOCUS: DESIGN A NEW INVENTION

Daily Practise: Spelling words - scientist, science, scientific. Practice writing each of the words several times. See if you can come up with a mnemonic (a system to help your memory like Never Eat Soggy Weetbix for the compass directions) to remember the 'c' after the 's' and the 'ce' ending on science.

Task: Little Big Idea

Follow the Little Big Idea instruction sheet at the end of this document (page 8). It is also on [Seesaw](#) so you can click straight on the links you need.

Maths

FOCUS: 3D SHAPES

Warm Up: Targeting Maths - Do some Shape work? Look up under the title Geometry. Revise and fine tune what you know about 2D and 3D shapes.

Task:

View this video clip : 3d Shapes For Kids

<https://www.youtube.com/watch?v=ZnZYK83utu0>



On page 7 of this planner look for the 2 colouring activities for Day 1 maths. Pay close attention! You need to write the correct name of the 3D shape next to the picture. Then using the colour key, colour the correct shapes in the picture the correct colour. After completing the colouring activity, paste the worksheet into your **workbook**.

P.E

Use Seesaw to watch a short PE welcome video.

Opening/Warm-up – Let's begin by completing a 4 minute Black Panther workout. Click on the link and get ready to use your super powers. <https://www.youtube.com/watch?v=9SDWArXm4mA>

Catching – We are going to continue with our focus on catching this week. When catching, remember to watch the ball closely, have your hands together, fingers spread and move your hands to where the ball is going to drop. Wrap your fingers around the ball as soon as it hits your hands.

Watch the three links below, one at a time, and complete the catching activities you see.

<https://www.youtube.com/watch?v=r1llzgdJZo>

<https://www.youtube.com/watch?v=ditRIE6hiXI>

<https://www.youtube.com/watch?v=FY0zhBQIo40>

Day 2

Reading

FOCUS: DIVING INTO SCIENCE AND TECHNOLOGY

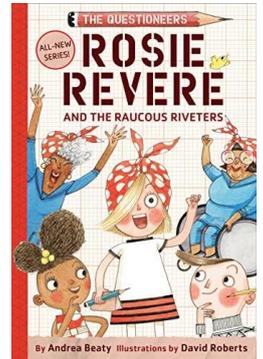
Independent Reading:

Students read their take home books and/or other Just Right books they may have at home. *Active Learn* is also available for use at home: [ActiveLearn: Login \(activelearnprimary.com.au\)](https://activelearnprimary.com.au) **Students have their login details from the last lockdown.**

Task: What can we learn from Rosie? What is the message in this book? What 'learning assets' or 'values' do all engineers and inventors need to be successful? What is an engineer?

View the video/read aloud : Rosie Revere Engineer <https://youtu.be/31eBdgnPsCo>

Think about the learning assets we use and talk about - being a Thinker, Self-manager, Communicator, Collaborator, Researcher and our school values of Respect, Responsibility, Resilience, Critical Thinking and Compassion. **Your first task is to view** the video and **in your workbook** write down which assets and values Rosie demonstrated and explain your thinking. When did she show this (give evidence/ examples from the book) and how did it help her to be a successful engineer? **Your second task** is to find out and record in a sentence or two - what is an Engineer? What do engineers do? This online dictionary link might help <https://www.dictionary.com/browse/search>



Maths



FOCUS: 3D SHAPES

What are 3D shapes? What features are important when naming and identifying 3D shapes? Do you know the difference between an edge, face, surface, vertice, point? What is the difference between a 2D and 3D shape?



Task: On **Seesaw** you will find a video that clearly explains and shows different 3D shapes and their features. Pay close attention as you will be asked to apply your learning to the task. You will also be asked to sort 2D and 3D shapes.

Writing



FOCUS: DESIGN AND CREATIVITY- ENRICHMENT DESIGN

Zoo keepers and volunteers spend a large amount of time creating enrichment for the animals at the zoo. It helps to keep animal habitats as natural and stimulating as possible.

Environmental enrichment provides species-appropriate challenges, opportunities and stimulation. An enriched environment should promote a range of normal behaviours that animals find rewarding as well as allowing animals to positively respond to potential stressors. For example, opportunities to hide or climb away from visitors or more dominant creatures.



Task: Put your design and production skills to the test by creating a new enrichment design for 1 of the selected animals. There are four steps to this activity which is outlined in more detail below on page 9 and 10, Upload an image of your final design onto **Seesaw** so we can share what you created with others.

Drama

Here is the Planner for Performing Arts/ Drama. **SCHOOL CONCERT POSTER COMPETITION**

https://docs.google.com/presentation/d/1VXIDZ5FxiFFdX7fodGbHT4pMZe5350INp0RJ_oleoLI/edit?usp=sharing

This week we are focusing on the School Concert Poster. It would be great to have a student design a poster for our School Concert. Please submit your design onto Seesaw. Have fun!

Here is the slide from last week if you need to practice your dances or singing the songs for the concert.

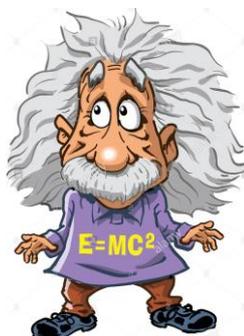
https://docs.google.com/presentation/d/1G_re5kffxuTlzy5n6Gd70PmVq24K-DF62jSnvKBttuA/edit?usp=sharing

Day 3

Reading

FOCUS: DIVING INTO SCIENCE AND TECHNOLOGY

Independent Reading:



Students read their take home books and/or other Just Right books they may have at home.

Active Learn is also available for use at home: [ActiveLearn: Login \(activelearnprimary.com.au\)](https://activelearnprimary.com.au)

Students have their login details from the last lockdown.

Task: <https://www.youtube.com/watch?v=GjoYbsvUoO4> Albert Einstein
After watching this video clip write 3 interesting facts about Albert Einstein's life. You may include some of his famous discoveries or talk about some interesting facts you learnt about his early life. Make sure that your facts are written in full sentences using the correct punctuation. Write a clear heading and draw a portrait of Albert Einstein to match your 3 interesting facts. Can you present this information in a way that would be appealing for our Grade Ones at school to read?

Writing

FOCUS: CAR CONSTRUCTION- STEM PROJECT

Task: The Design a Car STEM Set allows you to create and customise real-working cars. Each kit will include materials for you to engineer your own vehicle. Use the pre-cut pieces to build a car, and customise it with your own craft materials (not included). Then put it into action! As you test your creations, explore ways to fine-tune your vehicle until you have a car that races!

Complete the template below about your newly engineered car.

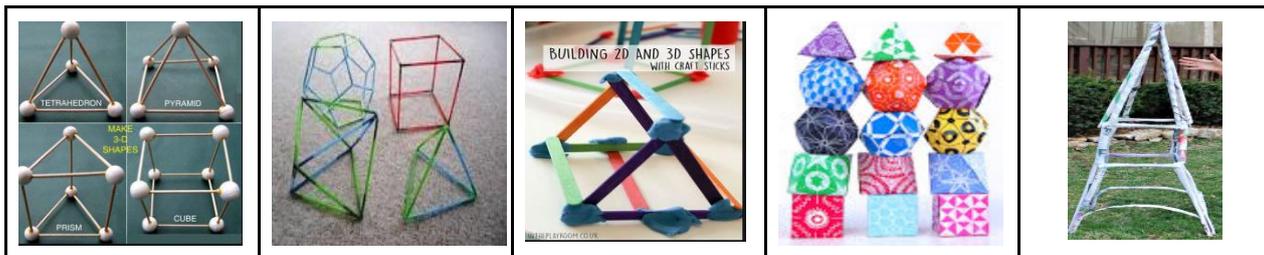


Maths



FOCUS: 3D SHAPES

Task: Warm- up your creative building skills because you are to use whatever building materials you might have at home to create 3D shapes. You can use building materials, such as lego, connector blocks, linking cubes or you can be very creative and use materials such as newspapers & masking tape, marshmallows and toothpicks, straws, craft sticks.



Apply your creative and critical thinking skills to create fabulous 3D shapes. Ensure they have all the required edges, faces (flat or curved), vertices or points. You can create as many (big or small) 3D shapes as you want **but send a photograph to your teacher on Seesaw of the shape you are most proud of, make sure that you label your shape with name and features (how many corners(vertices), edges and sides.**

Art

Week 6 Art – What is Art?

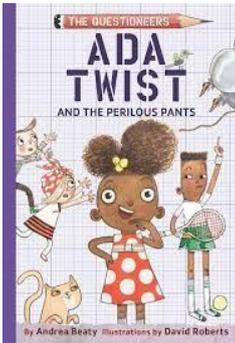
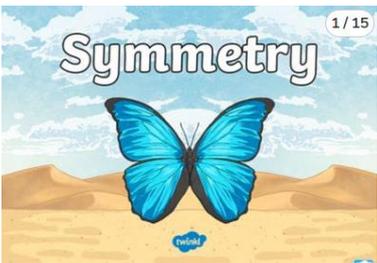
To access the Art program on google slides click on the link below.

This week is about [What is Art?](#)

The link will also be available on Seesaw.



Day 4

Reading	<p>FOCUS: DIVING INTO SCIENCE AND TECHNOLOGY</p> <p>Independent Reading: Students read their take home books and/or other Just Right books they may have at home. <i>Active Learn is also available for use at home: ActiveLearn: Login (activelearnprimary.com.au)</i> Students have their login details from the last lockdown.</p> <p>Task: View the video Ada Twist Scientist https://youtu.be/HNHJNMEFMwA . You might want to listen to the fictional text a couple of times, pausing when you need to, to help you to respond to the following: 1. What character traits does Ada demonstrate that make her a great scientist?Traits are how we would describe someone not what they look like on the outside but what sort of person they are. 2. Make a list of all the scientific words that you notice in the book - such as curious and hypothesis.</p>	
Writing	<p>FOCUS: EXPERIMENT AT HOME</p> <p>Task: After watching the amazing science experiments on the links below write what you found most fascinating and why. Can you explain the science behind the results that you observed? Draw a picture of the experiment you found most fascinating. If you have the materials for any of the experiments that you watched in your cupboard you could ask your parent or guardian if you could have a go at conducting one of these experiments yourself. <i>Please remember to ask permission.</i></p> <p>Magic Milk Magic milk experiment colours diy fun activity science - YouTube</p> <p>Rainbow Rain Experiment https://www.youtube.com/watch?v=z-R3DShHbkA</p> <p>Rain clouds with shaving cream and food dye https://www.youtube.com/watch?v=82BS_uSY4v8</p> <p>Skittles on a plate https://anyone4science.com/rainbow-on-a-plate-experiment/</p>	
Maths 	 <p>FOCUS: SYMMETRY</p> <p>To end the week in Maths we are exploring Symmetry. What is it? Where do you find it?</p> <p>Task: Your task is on Seesaw. View the presentation as Heidi introduces you to Symmetry and then complete the two symmetry activities. Upload to share with your teacher.</p>	
Indonesian	<p>Halo anak-anak</p> <p>This week, on August 17, is Indonesian Independence Day Click on the link for this week's lesson</p> <p>Indonesian Grade 2 week 6 term 3 2021</p> <p>Selamat belajar</p> <p>Pak Ben</p>	

Day 5

Reading

FOCUS: DIVING INTO SCIENCE AND TECHNOLOGY

Daily Practise: Students read their take home books and/or other Just Right books they may have at home.

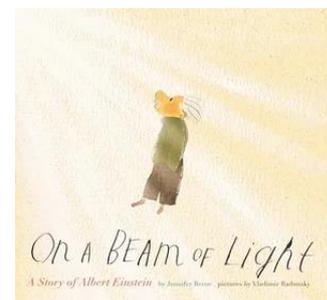
Active Learn is also available for use at home: [ActiveLearn: Login](#)

(activelearnprimary.com.au)

Students have their login details from the last lockdown.

Task: <https://www.youtube.com/watch?v=lo6aSfV00ks> **On a Beam of Life**

After listening to this story identify new knowledge you have gained about Albert Einstein. Look back at your 3 interesting facts about Albert Einstein you wrote on Wednesday. Have you discovered any new facts about Albert Einstein? In this book Albert Einstein is described as a genius. Why do you think people called him a 'genius'? What sort of person do you think you need to be to be called a 'genius'.



Writing



FOCUS: PLANE CONSTRUCTION- STEM PROJECT

Task: The Design a Plane STEAM Set allows you to create and customise real-working planes. Each kit will include materials for you to engineer your own vehicle. Use the pre-cut pieces to build a car, and customise it with your own craft materials (not included). Then put your plane into action! As you test your creations, explore ways to fine-tune your vehicle until you have a plane that soars!

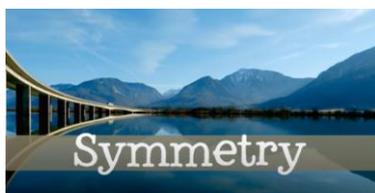
Complete the template below about your newly engineered plane. Send us a picture on Seesaw of the plane or car you constructed this week.



Maths

FOCUS: SYMMETRY

We have learnt that objects and shapes can be symmetrical (with one or more lines of symmetry) or asymmetrical where there are none. We hope you have also begun to notice symmetry in your surroundings - have you noticed any symmetry in or outside of your home? Our focus today is on Reflectional Symmetry (mirror image).



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

Task: View the video link - **Intro to Symmetry: All About Symmetry for Kids** (above) because it is excellent and we think you will enjoy it. After watching it you are going to apply your understanding of reflectional symmetry to having a go at drawing the mirror image on the worksheets at the back of the

planner. This takes practise - you will have to pay close attention to your work.

Health

Making our own Gratitude Jar

When times are tough and we are missing school and our family and friends, it is important to remember to be thankful for things that make us happy.

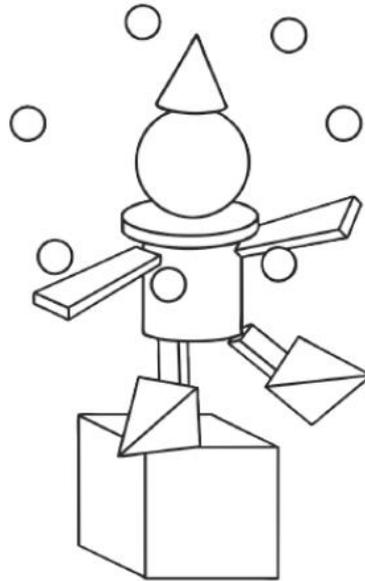
We would like you to make your own gratitude jar. Start by writing three things that you are grateful/thankful for. We hope that doing this puts a smile on your face!



3D Shape Colouring

Use the key to colour in the 3D shapes correctly.

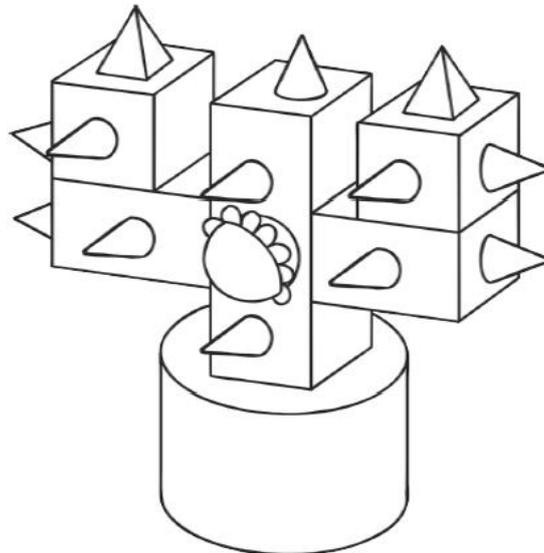
Key		
Shape	Name	Colour
		blue
		yellow
		purple
		green
		orange
		red



3D Shape Colouring

Use the key to colour in the 3D shapes correctly.

Key		
Shape	Name	Colour
		blue
		yellow
		purple
		green
		orange
		red



LITTLE BIG IDEA

LITTLE BIG IDEA is a competition to find the big innovative ideas that will shape the future – from little creative kids who will be living through it.

Your task
is to come up with a solution to a problem that you have noticed in the world.

We will work through the steps below. It will be up to you and your family whether you decide to enter your work in the competition (the link to the competition website is at the bottom of the page).

Before you Start - Watch this video for inspiration

<https://youtu.be/6bbJBghyz9w>



<p>STEP 1 Find a problem</p> 	<p>STEP 2</p> <ul style="list-style-type: none"> • Invent something to solve the problem. • Start by brainstorming a whole lot of different ideas. • You could start with the words 'What if...' 	<p>STEP 3 Create a drawing or picture, with 200 words or less, explaining your idea.</p> 	<p>STEP 4 Upload your work to Seesaw</p> 
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For more inspiration you can watch the kids from McAuley Primary interviewing Biomechanical Engineer Dr Jordan Nguyen <https://youtu.be/pnqKd9sZpjs>

You can also click on the following link and go to 'Previous Winners' to see what other kids have invented.

<https://www.littlebigidea.com.au/8c037cddd4c5e7dec34cdaf4ccb75ab1-2535.webp>

If you choose, you can enter the competition here

https://www.littlebigidea.com.au/?&ef_id=CjwKCAiwgb6iBhAREiwAgMYKRvcOArEKBYQqgOckLTvJgLGsSdT6EsiZE1iOh9SAa8J9Lb_20keHFRoCJ1QQAvD_BwE:G:s&s_kwid=AL14533131532629612410!p!!g!!kid%20activities&gclid=CjwKCAiwgb6iBhAREiwAgMYKRvcOArEKBYQqgOckLTvJgLGsSdT6EsiZE1iOh9SAa8J9Lb_20keHFRoCJ1QQAvD_BwE#/what-is/home



STEP 1: IDENTIFY AND DEFINE

Select one of the 2 animals (Pygmy Marmoset or Meerkat) and watch the videos (or read up about them) to familiarise yourself with their needs.

STEP 2: RESEARCH AND PLAN

It is important to have a sound knowledge of your species' natural behaviours and physiology before you start developing an enrichment tool. Eg: Do they like to play alone or with others? Can they jump? What do you think your animal would enjoy playing with? Would you include food or treats in your design?

STEP 3: DESIGN

Sketch a number of different designs (at least 3) for your enrichment tool. Be sure to check that the tool is safe, it is sturdy, and that it is natural-looking to fit into their environment.

Select your favourite design to draw up again which includes labels and detail.

STEP 4: EVALUATE

Does your enrichment tool meet all of the set criteria? Go through the checklist to evaluate your design.

Evaluation Checklist:

SAFETY		CONSTRUCTION	
The device will prevent animals from being caught or tangled.		The item is sturdy and durable.	
The items hole will not entrap body parts.		The item includes plant material. (Things that are non-toxic)	
The enrichment tool can be added and removed from the environment easily.			
The size of the enrichment tool is big enough so it cannot be swallowed by the animals.			
FOOD		AESTHETIC	
Food can be added at feeding time.		The item fits into the natural environment.	
The item can be cleaned to prevent disease.		It is made out of natural materials that look good.	

MEERKAT



Read about Meerkats at the following website:

[Meerkat Facts! | National Geographic Kids \(natgeokids.com\)](https://www.natgeokids.com)

Watch and learn about how clever Meerkats are at this link:

[Meerkats Solve Puzzles For A Tasty Scorpion! | BBC Earth Kids - YouTube](https://www.youtube.com/watch?v=...)

MEERKAT EXHIBIT

Taronga Zoo Sydney.



EXAMPLE OF ENRICHMENT DESIGN



PYGMY



MARMOSET

Read about Pygmy Marmoset at the following website:

[Pygmy Marmoset Fact Sheet - C.S.W.D \(crittersquad.com\)](https://crittersquad.com)

Watch them playing with one of their enrichment tools here:

[Pygmy Marmoset Using Enrichment on Vimeo](https://vimeo.com/...)

PYGMY MARMOSET EXHIBIT

Taronga Zoo Sydney.



EXAMPLE OF ENRICHMENT DESIGN





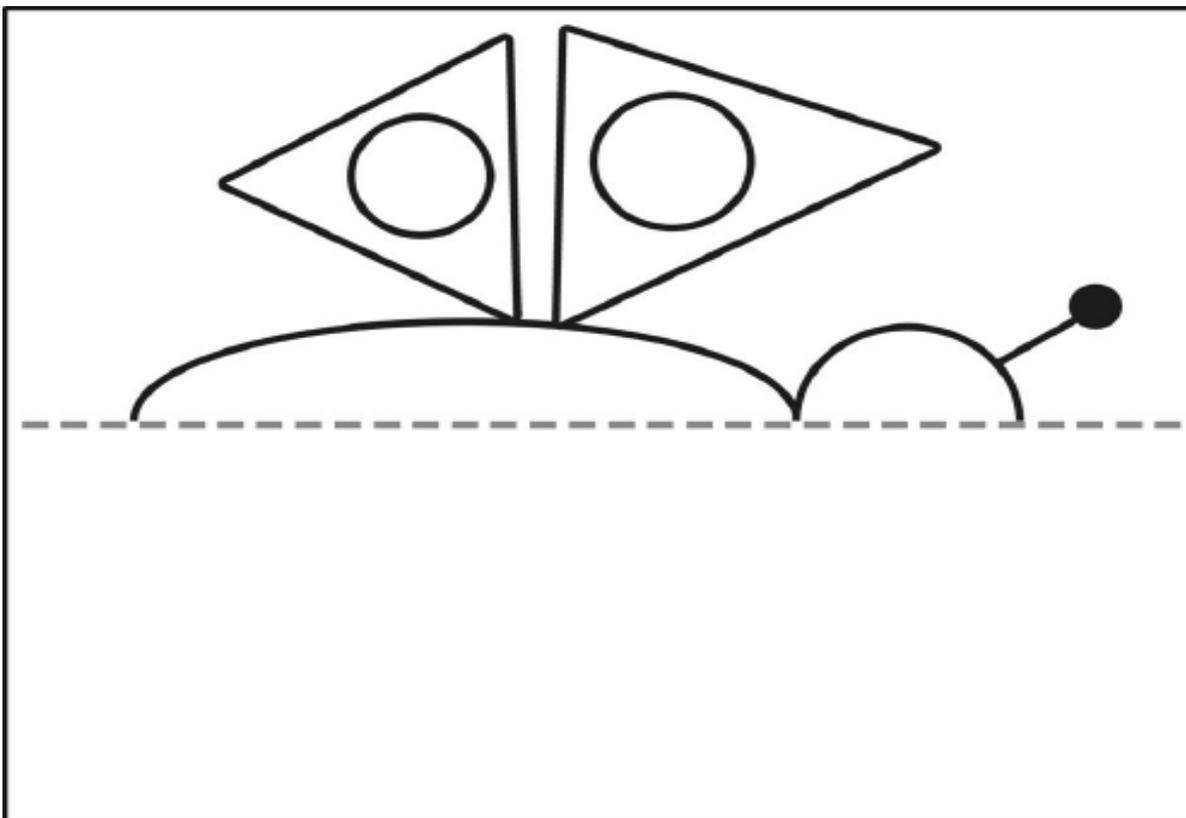
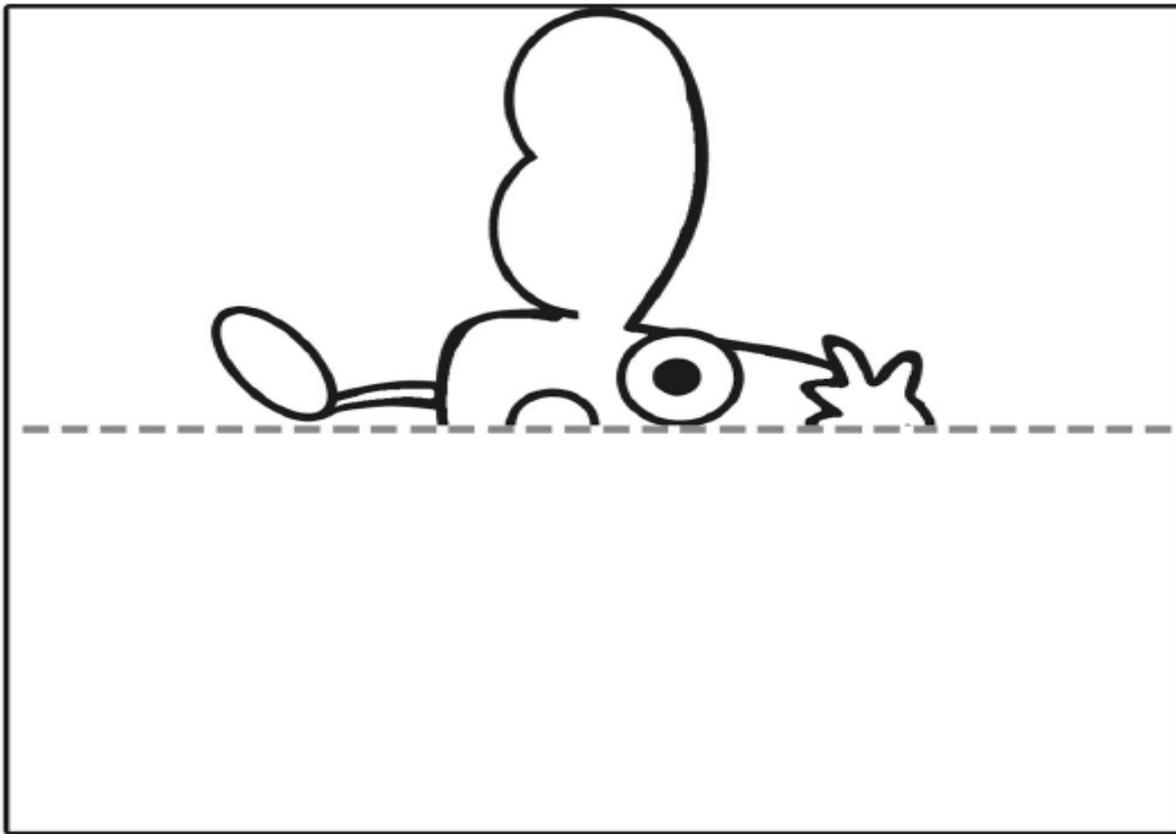
STEM Car

<p>What was tricky about making it?</p> <p><i>I found it tricky to...</i></p>	<p>What was easy about making it?</p> <p><i>(use a complete sentence)</i></p>
<p>Draw a labelled diagram of you car.</p>	
<p>Race your car 3 times, changing 1 thing each time. Record how far it travelled.</p> <p>1st Attempt:</p> <p>2nd Attempt:</p> <p>3rd Attempt:</p>	<p>What conditions made your car travel furthest?</p>



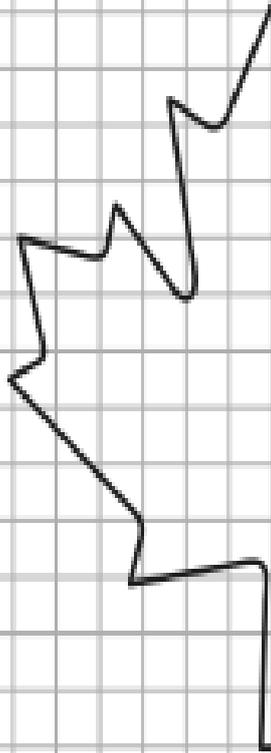
STEM Plane

<p>What was tricky about making it?</p> <p><i>I found it tricky to...</i></p>	<p>What was easy about making it?</p> <p><i>(use a complete sentence)</i></p>
<p>Draw a labelled diagram of you plane.</p>	
<p>Fly your plane 3 times. In between each flight, make a tweak to your plane. Record how far it travelled.</p> <p>1st Attempt:</p> <p>2nd Attempt:</p> <p>3rd Attempt:</p>	<p>What did you do to your plane to make it travel furthest?</p>

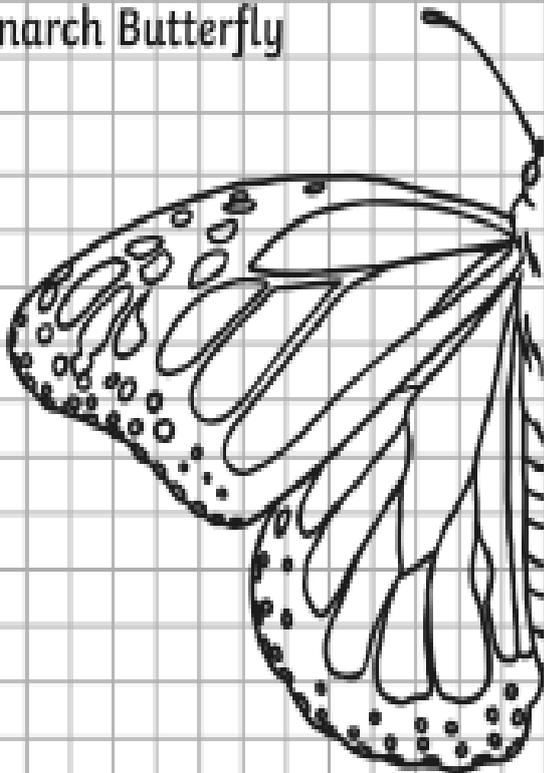


Additional Challenge - Symmetry

Maple Leaf



Monarch Butterfly



Mindful Colouring for those who need it:

