



Week Commencing Monday 6<sup>th</sup> July Year 5 and 6

**PE**  
Use the link below to access daily exercise sessions  
<https://durhamcls-ssp.co.uk/>  
**There is also a Durham Dash home learning challenge available.**

Can you try this challenge at home from the Youth Sport Trust?

## 60 Second Challenge

### Figure of 8

Do you believe in yourself and keep trying if you drop the ball?

**The Physical Challenge**

How many times can you pass a ball through both of your legs in 60 seconds?

If you drop the ball you need to pick it up quickly and carry on.



**#StayHomeStayActive**

**Equipment**

A ball

If you do not have a ball use a toilet roll or a cuddly toy.

<b>Achieve Gold</b>	35 times through your legs	
<b>Achieve Silver</b>	25 times through your legs	
<b>Achieve Bronze</b>	15 times through your legs	

**PSHE**  
Check the school Facebook page for this week's **Rights Respecting School PowerPoint** to discuss at home.

**Computing**  
[https://www.thinkuknow.co.uk/8\\_10/](https://www.thinkuknow.co.uk/8_10/)  
Explore the think you know website to help you to think about computer safety.

<https://quorumlanguage.com/hourofcode/astro1.html>  
Follow the online tutorial to explore an Astronomy Hour of Code.

**DT**  
During this half term I would like children to design, make and evaluate a waterproof container which can be used to protect precious items during a natural disaster.

Please take photographs of your planning and building processes to share on our school Facebook page.

Something different  
**Engineering and science challenges from Dyson**

## TORNADO IN A BOTTLE

SCIENCE CHALLENGE **07**  
Designed by Adam,  
Design engineer at Dyson

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**The brief**  
Create a water vortex in a bottle.

**The method**

- Fill the plastic bottle with water until it reaches around three quarters full.
- Add a few drops of washing up liquid.
- Sprinkle in a few pinches of glitter (this will make your tornado easier to see).
- Put the cap on tightly.
- Turn the bottle upside down and hold it by the neck. Quickly spin the bottle in a circular motion for a few seconds. Stop and look inside to see if you can see a mini tornado forming in the water. You might need to try it a few times before you get it working properly.


**Materials**

- Water
- A clear plastic bottle
- Glitter
- Washing up liquid



**How does it work?**

The water is rapidly spinning around the centre of the vortex due to centripetal force. This is an inward force directing an object or fluid such as water towards the centre of its circular path.



**Did you know?**

Vortices found in nature include tornadoes, hurricanes and waterspouts.

**Music**  
Listen to the song Clint Eastwood by Gorillaz.  
<https://www.youtube.com/watch?v=UclCCFNG9q4>

Discuss the questions;  
-What is this song about?  
-What can you hear?  
-How does the music make you feel?  
**Why do you think this?**



**Art**

This half term we will be looking at the work of Vincent Van Gough.



**Key questions to consider:**

- What do you like/dislike about this?
- What does the artwork show?

**Can you use resources at home to create a replica of this picture?**

**Science**

This half term our topic is **Earth and Space**. This week I would like children to investigate one of the planets in our solar system.

**Key Learning**

- Can children name the planets in our solar system?
- Can children find facts about their chosen planet?

**TASK**

**Can you choose a different planet in our solar system and collect research about this?**

Reminder:

You can explore the websites to find out about the planets in our solar system.

<https://www.space.com/16080-solar-system-planets.html>

<https://www.sciencekids.co.nz/sciencefacts/space/solarsystem.html>

Can children explore the order of the planets using the education city game **Solar Stroller**?

**Remember**

- Our history learning project is still on the school website.
- Our new geography topic Earthquakes has also been added to the website.
- You have key words to practise reading and spelling
- You have a list of online learning sites you can use. As well as <https://classroomsecrets.co.uk/free-home-learning-packs/> (this website is updated every week)
- Children were given their own login to use Education City

**READING AT HOME**

This website is offering free e-books so that you can enjoy reading a range of fiction and non-fiction texts at home.

<https://www.oxfordowl.co.uk/for-home/find-a-book/library-page/>