



Week Commencing Monday 29th June 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**  
**Super Slalom Run**

Can you try and run as fast as possible?

**The Physical Challenge**

How many slalom runs can you complete in 60 seconds?

Layout 3 objects 3 steps apart, you must run in and out of the objects and back to the start to complete 1 slalom run.

**#StayHomeStayActive**

**Equipment**

A safe space and 3 objects.

This activity is best played outside, where you have lots of space.

**Achieve Gold**

20 Slalom Runs

**Achieve Silver**

18 Slalom Runs

**Achieve Bronze**

12 Slalom Runs

**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**

**EXPANDING GASES**

**SCIENCE CHALLENGE 06**

Designed by David, Senior mechanical engineer at Dyson

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**The brief**

Find out what happens when gases are heated up or cooled down.

**The method**

1. Fill two bowls – one with cold water the other with hot water.
2. Put the bottle into cold water.
3. Fit a balloon to the neck of the bottle.
4. Now place the bottle into the hot water.
5. Watch the balloon expand.

**Materials**

Two bowls  
 Cold water, hot water (with adult supervision)  
 A sturdy plastic bottle  
 A balloon

**How does it work?**

Gas expands when it is heated. The rule is, if the pressure of a gas remains constant, the volume of the gas will increase as the temperature increases. So if the temperature increases, the gas takes up more space. This is known as Charles' Law. The principle was first formulated by the French physicist Jacques Alexandre Cesar Charles in 1787.

**Design icons**

Steam engines heat up air and allow it to expand in cylinders to drive wheels.

**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://studio.code.org/flappy/1>  
 Follow the online tutorial to make your own flappy bird game.

**Music**  
 Listen to the song Human by Rag'n'Bone Man  
<https://www.youtube.com/watch?v=L3wKzyIN1yk>  
 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 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/>