



Week Commencing Monday 22nd 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**  
Fast Feet

Can you keep going even if you lose control of the ball?

**The Physical Challenge**  
 How many times can you dribble a ball around a marker and back in 60 seconds?  
 Place down a starting marker and then a second marker 5 steps away. Each time you dribble the ball around the marker and back you score 1 point.

**#StayHomeStayActive**

**Equipment**  
 A ball and two markers  
 If you do not have a ball how many times can you run around the marker and back?

**Achieve Gold**  
24 dribbles around the marker and back

**Achieve Silver**  
18 dribbles around the marker and back

**Achieve Bronze**  
12 dribbles around the marker and back

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

**Something different**  
 You could apply for a Blue Peter badge- let me know if you are successful!  
<https://www.bbc.co.uk/cbbc/joinin/about-blue-peter-badges>

**Mindfulness**  
 Lie on your back outside and close your eyes so you can use all of your senses except for sight.  
 Notice the feel of the air, the feel of the ground, the sounds that surround you and any smells that are present.

**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**

**SCIENCE CHALLENGE 05**  
 Designed by Ben, Design engineer at Dyson

## LIQUID DENSITIES

**The brief**  
 Layer different liquids in a tube and discover how and why they settle in a certain order.

**The method**

- Start by adding food colouring to the surgical spirit and to the water – using a different shade for each. This will allow you to identify each liquid.
- Measure out equal quantities of each liquid. Add them to the tube, one by one.

**Top tip**  
 Try weighing each liquid before you add it and predict which order the liquids will settle in. The layers may be a little mixed at first. Allow them to settle for a moment and watch the layers start to define.

**Materials**  
 A test tube  
 Honey  
 Oil  
 Surgical spirit  
 Water  
 Washing up liquid  
 Two shades of food colouring

**How does it work?**  
 Different liquids have different densities and therefore, different weights. The heaviest liquids will sink, the lighter liquids will rise to the top. Density is a comparison between an object's mass and volume. Remember the equation:

$$\text{DENSITY} = \frac{\text{MASS}}{\text{VOLUME}}$$

Based on this, if the weight – or mass – of something increases but the volume stays the same, the density has to go up. Lighter liquids, like water, are less dense than heavy liquids, like honey, and so float on top of the more dense layers.

**Music**  
 Listen to the song **Heal the World by Michael Jackson**  
<https://www.youtube.com/watch?v=nhcG9wgn0gU>  
 Discuss the questions;  
 -What is this song about?  
 -What can you hear?  
 -How does the music make you feel?  
**Why do you think this?**



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### Art

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



Starry Night Over the Rhone by Vincent van Gogh.

#### **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 think about the order of the planets.

#### **Key Learning**

- Can children name the planets in our solar system?
- Can children talk about which planets are closest to the sun?
- Can children talk about which planets are the furthest from the sun?

#### **TASK**

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/>