



OCTOBER 2020 - WEEK 5TH - 8TH



JLT Primary Elections

WHAT'S INSIDE

Early Years News

2

Primary News

3

Middle School News

4

High School News

5

Tips and
Meet our staff

6

Dates to remember

→ Fri.9

Local holiday
(San Dionisio)

→ Mon.12

National holiday
(Día de la Hispanidad)

“Education is the
movement
from darkness
to light”

Alan Bloom

MESSAGE FROM OUR SCHOOL HEAD

It is very exciting to see how slowly our students and our Sage Community are assuming responsibilities and look to the future with the desire to develop new projects. This week we can highlight the elections of the Junior Leadership Team in Primary and next week in Secondary. In addition, the Parents Ambassadors are getting organised to start their calendar of activities for this year, the clubs are a big success, the opening of our Music and Performing Arts classroom, the welcome of our new teachers, the assessments of the first six-week cycle and much more that just reminds us that every day is an opportunity to learn with our motivated faculty who provides our students with the most exciting experiences.

by Mr Wickham

EARLY YEARS NEWS



Exploring the new garden area has brought us great joy in Early Years this week. Each morning the children get the chance to develop their social and gross motor skills in this lovely new setting.

by Ms Sawyer



PreNursery

PreNursery Ducklings class have been climbing and sliding and have been stretching their imagination in their incredible **role play together** as the house became a castle and our students became prince and princesses.



Nursery

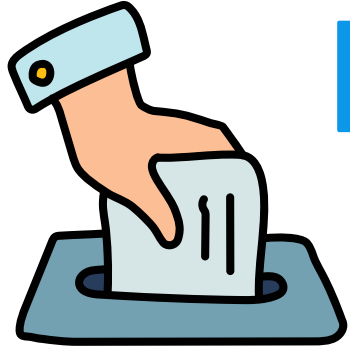
The Friendly Frogs in Nursery class can be heard sweetly singing as they move in a lovely line from their classroom to the garden. When in the garden their favourite activity has been **exploring the large garden games**, putting the noughts and crosses in and out and in and out.



Reception

Busy Bees have been, **creating and participating in gross motor skill circuits**. Not only are they learning important physical development movements, they have been developing turn taking skills and patience. Great job Busy Bees!





PRIMARY NEWS

We endeavour to support children to become global citizens through actively developing leadership skills and active citizenship. This means, being involved, taking action and being a positive role model for others. This week the children in KS2 have been running their JLT elections and the new JLT members have been voted in, it is our pleasure to introduce:

by Ms Sawyer

Junior Leadership Team (JLT) Elections

Mario Arcila, 3R



Julieta Pérez, 3R



Gabriela Lorenzo, 4C



Lucas Moreno, 4R



Miguel Moreno, 5T



Irene Amor, 5T



Felix Romero, 6S



Montse Moreno, 6W



MIDDLE SCHOOL NEWS

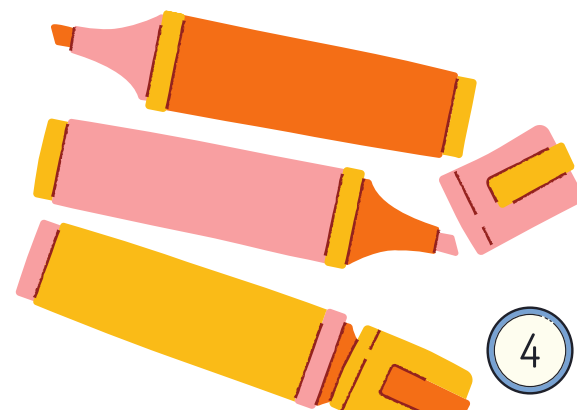
The past week has seen the beginning of the KS3 student's journey within the theme of "Harry Potter". Furthermore Year 7 have adapted to their new life as secondary students extremely well and are an example to other students around the school. At the other end of the spectrum year 11 are already hard at work with their IGCSE preparation particularly in the Sciences, where they have some small exams this week. A useful study guide is valuable to students and can be accessed by students using the following link:

<https://drive.google.com/file/d/1Z7i3DBn7FhYa3eBffe0E50i6Y98VGa6O/view?usp=sharing>

by Mr Connor

Our Year 7 students have had the chance to discuss figurative language and then put it into practice when writing their poems during their English lessons. Following the unit topic "House and Home", they have written their own acrostic poems about their homes and how they feel about it. They have proudly read their poems to the rest of their class and some of them were very impressive.

by Ms Zamacola & Ms Domínguez





HIGH SCHOOL NEWS

University is an outstanding and unforgettable stage in life. Nothing better to be ready for university than working with similar methods that allow students to use practical and analytical skills, and starting to complete the steps and documents needed to get a place. This week, we bring activities that are related with the aforementioned details. We wish you a restful bank holidays.

by Mr Soto

PRACTICAL LEARNING

A student-centered education is one that allows pupils to have an active role in the learning process. Our Year 13 students conducted an experiment to calculate the acidity of a commercial acid. Acids are present in our daily life, and it is strongly important to know their properties to predict their properties and design new products. Well done!



OUR PUPILS GETTING TO THEIR FUTURE...1

Going to university is one of the most important stages in our lives. However, it is difficult to decide what and where to study. For that reason, at Sage College, we offer guidance to help our High School students to make the decision and to prepare the documents needed. They have a workshop every week in which they have started to work on this important process. Working together to reach the dreams!



AN UNFORGETTABLE LEARNING

"Tell me and I forget, teach me and I remember, involve me and I learn". Benjamin Franklin. Films are a fantastic tool to attract the attention from pupils and to encourage them to learn more about a topic. Our Year 13 physics students have undergone the experience of learning by analysing some fragments of the film "Interstellar". In particular, they analysed how to create artificial gravity in a spaceship by rotation and centripetal force. They are fascinating to learn about all this.

INTERSTELLAR

Why spin the spaceship?

The centripetal force is the resultant force caused by the acceleration by any object moving in a circle.

The centripetal force is an inertial force that appears to act on all objects when viewed in a rotating frame of reference.

Thanks to the centrifugal reaction made by the rotation, we can produce a centrifugal force that simulates Earth's gravity for the astronauts.

Let's compare it with a small example. If we take a bucket full of water and we spin it over our head fast enough, we may avoid getting wet. This happens because the contents get pushed toward the edges.

So, when the Endurance rotates, exactly the same happens, getting an artificial gravity.

Where does the force come from?

To have a force acting, we need a mass and an acceleration, as we can see in the formula: $F_{\text{cent}} = m \cdot a$. Acceleration is a change in velocity. As velocity is a vector, a change in direction will result in acceleration. If we move in circles at a constant speed, we are changing the direction all the time and accelerating.

$\vec{a}_{\text{avg}} = \frac{\Delta \vec{v}}{\Delta t} = \frac{\vec{v}_2 - \vec{v}_1}{\Delta t}$

$F_c = \frac{m \cdot v^2}{r}$

This means that at any point of our spaceship, the magnitude of the velocity remains the same.

The acceleration would be the centripetal acceleration that acts towards the centre of our spaceship. The force acting towards the centre, can be calculated with the formula above and it would be equal to the centripetal force.

As we can see in the diagrams, the centripetal force always leads toward the centre of the circle. For the velocity, we can see in each diagram that all the vectors are different, this is because they all have different directions, which causes the acceleration and hence simulate the Earth's gravity.

References:
<https://medium.com/@BachilleratoSage/interstellar-explained-7d33d6c0986f>
<https://www.wired.com/2014/04/physics-spinning-spaceships-interstellar/>
 Year 13 Physics Book

Amalia Fage Simonin Y13

OUR PUPILS GETTING TO THEIR FUTURE...2

And if career advice is an important workshop to help our students to go to university, Bachillerato Sage is even more. BACHILLERATO SAGE gives the opportunity to access any university in Spain. Moreover, it is useful to reinforce some parts of the content studied in the equivalent A level subject. This will also contribute to the academic improvement in different areas. This week, our students have continued working in matemáticas, química, biología and física to get ready for EvAU exams in the future.



Tips from our
school
psychologist



Reminders for **HARD DAYS**

1. A bad day doesn't mean a bad life. *tomorrow will be another day*

2. Nothing stays the same.



3. Not all thoughts are true.

4. Feelings are not facts.

5. **BE GENTLE WITH YOURSELF.** Trust your voice, strength and inner.

6. Your worth is not contingent on circumstances. *you are capable enough*

7. You're not alone. It's ok to **ask for help.**

8. The only way out is through.

9. Focus on the things you can control.

Let go of the rest. *this is easier to said than done*

@dchapsyche

MEET OUR STAFF

THIS WEEK... **MR CONNOR**



ABOUT ME...

Let me introduce myself, most people call me Jim or at school Mr Connor but my formal name is James, James Patrick Connor. I was born a few years ago in South Africa, but am also English with a bit of Irish thrown in and lived and studied in England. I am the Year 11, 12 and 13 Biology and Year 12 ICT at Sage College, but have not always been here. Previously I studied at Bournemouth University, University of London and University of Cambridge (BSc. MSc. & PGCE). After working at Imperial College for 4 years as a research assistant I took up teaching. Recently I noticed that I have now been teaching for 20 years in International Schools in 6 countries as a teacher, coordinator or head.

HOBBIES AND PASSIONS...

I enjoy the world: science, photography/video, hiking and yoga and am passionate about the environment and the future of our planet. I have done various activities in my time, including climbing up Kilimanjaro, trekking in the Himalayas, rock climbing, a few marathons and parachuting.

Don't forget to follow us!



www.sagecollege.eu