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Good News

for

THE LINK

Newsletter for the pupils, parents and staff of
St Michael's Catholic College

Issue 171 - April 2020



Earth Day

The 22nd of April is Earth Day.

This annual event celebrated globally since 1970, has for mission to diversify, educate and activate the environmental movement worldwide.

Earth Day Network works in over 190 countries around the world to drive meaningful positive actions for our planet across the following issues:

- Climate action
- Science and education
- Plastic and pollution
- People and communities
- Conservation and restoration

2020 was an important year, marking its 50th Anniversary. Students were asked to submit any pictures of things they decide to do to raise awareness of this special day!

Our world needs transformational change to survive. In order to fight our environmental crisis we need audacious and innovative solutions, as well as simple actions that anyone can perform. As a human being, you have real power and influence as a consumer and a member of a community that can unite for change.

To make everyday Earth Day, there is so much you can do as individual: use public transport, save water and energy, recycle, refuse plastic or single use product (plastic bag, paper cup, plastic toothbrush, etc), buy local organic products, volunteer, donate, gardening, avoided consuming palm oil and animal products such as meat and dairy. By choosing a vegan diet, you can **reduce global warming, avoid excessive CO₂ production by 73%, reduce methane/nitrous oxide production by 65%, save 92% of water, avoid further pollution of our streams/rivers/oceans, reduce destruction of wildlife habitats & tropical rainforest by 91%, reduce ecological footprint by 50%, and help ensure environmental sustainability.** Do not underestimate your power, you can make a difference! - *Mrs Brissaud-Baudry* -



International Trade – That's our Business!

Ahead of the college closure at the end of March, St Michael's Business department was delighted to welcome Pranav Chopra, who is the CEO of Nemitea Ltd, a London based Tea company, who came and gave a masterclass on his unique perspective on importing and exporting in the current global marketplace.

His visit coincided with year 12 and 13 students who are carrying out a CTEC project on International Trade. This was particularly good timing as the current global trade crisis was already underway in Asia, where much of his supply is sourced. Pranav was able to give a perspective on the dynamic nature of global business, and the ways in which his company was adjusting.

We are very grateful for Pranav to have given up valuable time to our students, and note with great appreciation the whole aspect of work within the community, including a stated policy of employing refugees in his company. These values certainly dovetail with our own Salesian Values here at St Michaels. *Mr Davis*



Results from the Easter Challenges!

Congratulations and thank you to everyone who entered the Easter Challenges during the holidays! There were so many fantastic entries it was very difficult for a winner to be selected from each of the competitions!

In the attached presentation - I have included only some (there were too many to include everyone) of the entries! The bakes were amazing, the poetry was reflective and the art work was fantastic!



Art Challenge Winner - Isioma A., Year 7, Bosco - 100 Points and £20 Amazon Voucher

Poetry Challenge Winner - Crystel G., Year 7, Vicuna - 100 Points and £20 Amazon Voucher

Bake-Off Challenge Winner - Olivia S. Year 8, Bosco - 100 Points + £20 Amazon Voucher

Overall Winner - Robert S., Year 9, Rua - 1000 Points and £30 Amazon Voucher

Fantastic work everyone and please continue to participate in as many of the house competitions in the coming days and weeks!

Stay Safe, **Mr Kelly**

Freedom In Captivity

Forced to stay indoors.
Forced to think your bored.
There is so much awaiting to be done.
Get up and have some fun.
Painting, reading, drawing, baking
All these different activities.
You think your bored.
Bored that boredom with a sword.
You don't have the right things?
Well get up and start thinking.
There is always another way.
Never give up ok?

Forced to stay indoors.
Forced to think your bored.
So many things that are waiting
Get up and do some painting.
Organise, decorate, clean out
This is the time to do the things you had no time for before this.
This is the time to come together and be one big family.
This is the time to play indoors happily.
You think that there is nothing to do?
Go on a hunt for things that are new.
Things you have never been able to do before.
Things that will inspire you to do more.
And at the end of all your days,
Don't forget to thank the NHS on your way.



Freedom in Captivity

Sitting inside, wondering what to do,
It is something that we have all been through.
During this time waiting at home,
You sit and wait and something comes to mind,
Wanting to go outside without catching a cough,
Making, baking with the people in your home,
Is the best way of having fun inside,
Walking about making anything you can,
It is the best freedom a person can own,
This time can seem a bit boring,
So take out a pencil and start up a new drawing,
Listening to music, to each of the songs different melody,
It is the best form of Freedom in Captivity,
Now when your sitting inside, wondering what to do,
Remember these easy things that anyone can do.

Important message to ALL students from Mrs Fregard

Dear St Michael's Students,

I hope you and your families are all keeping well and staying positive during these difficult and strange times.

Perhaps you are even missing school !!!

In the meantime, I have listed some useful websites below just in case you are feeling a little bit stressed or anxious at the moment. These are safe and legitimate organisations set up to support young people during difficult times:

youngminds.org.uk

childline.org.uk or call 0800 11 11 11

nspcc.org.uk

barnardos.org.uk

www.kooth.com



And just a little bit of extra advice, if in doubt always remember our school Salesian values of:

Respect

Understanding

Affection

Humour

Follow these values in all of your dealings both with family and friends and you can't go wrong they will keep you both happy and safe.

If you have concerns about yourself or someone else in our College community please do let the Safeguarding team know by emailing contact@stmichaelscollege.org.uk and mark it for the attention of Mrs Fregard and Ms Nottage. - **Mrs Fregard and the Inclusion Team.**

Good Maths Work

With

Miss C. Roshier

Year 8

Hegarty Maths

Area of a circle (A)

Area: $A = \pi r^2$

Circumference: $C = \pi d$

Cherry Pies are delicious → Apple pies are too!

Example: Find the area of a circle with radius 5.42cm. Give answer to 2 decimal places.

$A = \pi r^2$
 $A = \pi (5.42\text{cm})^2$
 $= 92.29\text{cm}^2$

Quiz

1. Find the area radius = 6.48m
2 dec points.
 $A = \pi r^2$
 $A = \pi (6.48)^2$
 $= 131.92\text{m}^2$ ✓

2. Find the area radius = 5.49m
2 dec points.
 $A = \pi r^2$
 $A = \pi (5.49)^2$
 $= 94.34\text{m}^2$ ✓

Juvienia M.
Maths Work
Year 8

1. Find area of circle radius = 4.8m
2 dec p.
 $A = \pi r^2$
 $A = \pi (4.8)^2$
 $= 98.17\text{m}^2$ ✓

2. Find the area. Diameter = 8.6m
 $r = 4.3$
 $A = \pi r^2$
 $A = \pi (4.3)^2$
 $= 58.06\text{m}^2$ ✓

3. Find area of circle diameter = 2.2m
 $2.2\text{m} \div 2 = 1.1\text{m} = \text{radius}$
 $A = \pi r^2$
 $A = \pi (1.1)^2$
 $= 3.80\text{m}^2$ ✓

4. Find area of circle radius = 4.3cm
2 dec p.
 $A = \pi r^2$
 $A = \pi (4.3)^2$
 $= 58.06 \times 100$
 $= 5806$ ✓

5. Find the area radius = 15cm
3 SF
 $A = \pi r^2$
 $A = \pi (15)^2$
 $A = 707\text{cm}^2$ ✓

6. Find the area radius = 20cm
3 SF
 $A = \pi r^2$
 $A = \pi (20)^2$
 $A = 1256\text{cm}^2$ ✓

7. Find the area radius = 3cm
in terms of π
 $A = \pi r^2$
 $A = \pi (3)^2$
 $A = 9\pi\text{cm}^2$ ✓

8. Find the area diameter = 22m
in terms of π
 $22 \div 2 = 11$
 $A = \pi r^2$
 $A = \pi (11)^2$
 $A = 121\pi\text{m}^2$ ✓

Hegarty Maths

Video: Area of a circle

Keywords:
 - Area - Diameter
 - Circle - Area
 - Radius - Pi

Circumference:
 πd (diameter)
 $2\pi r$ (radius)

Area:
 πr^2

Example 1:
 Find the area of a circle with radius 5.42 cm. Give your answer to 2 decimal places.

$A = \pi r^2$
 $A = \pi (5.42)^2$
 $= 92.288$
 $A = 92.29\text{cm}^2$

Example 2:
 Find the area of a circle with diameter of 9.6m. Give your answer to 1 decimal.

$A = \pi (4.8)^2$
 $= 72.382$
 $A = 72.4\text{m}^2$

$D = 9.6$
 $r = \frac{9.6}{2}$
 $r = 4.8$

Example 3:
 Find area of a circle with radius 13cm. Give your answer in terms of π .

$A = \pi r^2$
 $= \pi (13)^2$
 $A = 169\pi$

Julianne C.
Maths Work
Year 8

Gay working and answers

1. $A = \pi r^2$
 $= \pi (7.1)^2$
 $= 158.81\text{m}^2$

2. $A = \pi r^2$
 $= \pi (7)^2$
 $= 153.94\text{m}^2$

3. $A = \pi r^2$
 $= \pi (5.8)^2$
 $= 105.62\text{m}^2$

4. Diameter 6.3m $\div 2 = 3.15$
 $A = \pi (3.15)^2$
 $= 31.2\text{m}^2$

5. Diameter 9.5m $\div 2 = 4.75$
 $A = \pi (4.75)^2$
 $= 70.9\text{m}^2$

6. Radius = 24cm (3 SF)
 $A = \pi (24)^2$
 $= 1809.557$
 $= 1810\text{cm}^2$

7. Radius = 68cm (3 SF)
 $A = \pi (68)^2$
 $= 14526.724$
 $= 14500\text{m}^2$

8. Radius = 66cm (3 SF)
 $A = \pi (66)^2$
 $= 13684.777$
 $= 13700\text{m}^2$

9. Radius = 2cm
 $A = \pi (2)^2$
 $= 4\pi\text{m}^2$

10. $2r = 28$
 $r = 14$
 $A = \pi (14)^2$
 $= 196\pi\text{m}^2$

Score = 100%

Good Maths Work

With
Miss C. Roshier

Year 10

HCF and LCM

① $204 = 2^2 \times 3 \times 17$

② $742 = 2^1 \times 3^2 \times 11$

③ $1400 = 2^3 \times 5^2 \times 7$

$8 = 2^3 \rightarrow 8 = 2 \times 2 \times 2$
 $8 = 2^3$

$n = 12960 = 2^5 \times 3^4 \times 5$

④ 4320
 1440
 480
 160
 32

⑤ $90 = 2 \times 3^2 \times 5$

⑥ $152 = 2^3 \times 19$

⑦ $168 = 2^3 \times 3 \times 7$

⑧ $180 = 2^2 \times 3^2 \times 5$

⑨ $LCM = 2^3 \times 3^2 \times 5 \times 7 = 1260$

⑩ $HCF = 2 \times 2 \times 3 = 12$

⑪ $LCM = 12 \times 2 \times 2 \times 5 \times 7 = 5040$

⑫ $HCF = 2 \times 2 \times 3 \times 5 = 60$

⑬ $LCM = 180 \times 2 \times 5 = 1080$

⑭ $36 \times 2 \times 3 \times 5 = 1080$

⑮ $A = 2^2 \times 2 \times 3 \times 5 \times 5 = 600$

⑯ $B = 2 \times 2 \times 3 = 12$

⑰ $HCF = 2 \times 2 \times 3 = 12$

⑱ $LCM = 12 \times 2 \times 5 \times 5 = 600$

⑲ $A = 2^4 \times 3^2 \times 7 = 1008$

⑳ $N = 2^2 \times 3^2 \times 5 = 180$

㉑ $2 \times 2 \times 3 \times 3 = HCF = 36$

㉒ $36 \times 2 \times 2 \times 5 \times 7 = LCM = 5040$

㉓ $HCF = 2 \times 2 \times 2 \times 3 \times 7 = 84$

㉔ $LCM = 504 \times 2 \times 5 \times 3 = 15120$

Rudwin D.
Maths Work

① $2 \times 3 = 6$

② $LCM = 6 \times 2 \times 2 \times 3 \times 5 = 120$

③ $HCF = 11 \times 2 = 22$

④ $360 = 2^3 \times 2 \times 3 \times 3 \times 5$

$18 + 72 = 90$
 $30 + 60 = 90$
 $40 + 20 = 60$

Factors of 360
1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, 18, 20, 24, 30, 36, 40, 45, 60, 72, 90, 120, 180, 360

DI & D2
Hint: $A \times B = HCF \times LCM$

① $90 \times x = 18 \times 540$
 $x = \frac{18 \times 540}{90} = 108$

where
 $A = 90$
 $B = x$
 $HCF = 18$
 $LCM = 540$

You try D2.

① $90 \times 18 = 1620$
 $90 \times x = 18 \times 540$
 $x = 108$

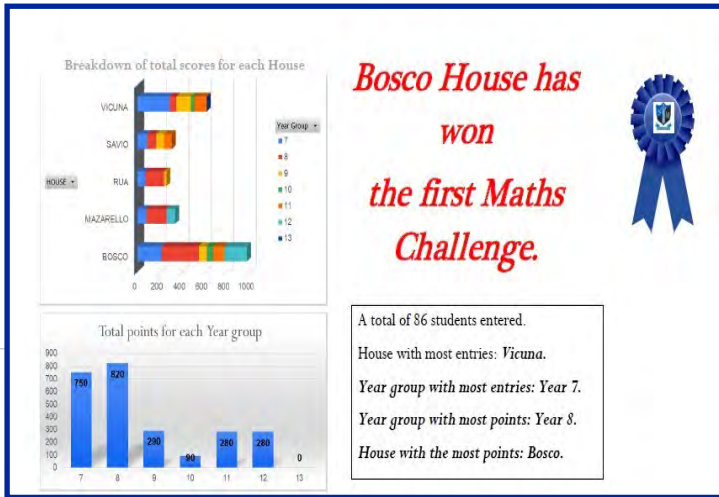
② $90 \times 18 = 1620$
 $90 \times x = 18 \times 540$
 $x = 108$

③ $90 \times 18 = 1620$
 $90 \times x = 18 \times 540$
 $x = 108$

④ $90 \times 18 = 1620$
 $90 \times x = 18 \times 540$
 $x = 108$

Amarachi I.
Maths Work

First Maths Challenge



***Bosco House has
won
the first Maths
Challenge.***



A total of 86 students entered.
House with most entries: *Vicuna.*
Year group with most entries: *Year 7.*
Year group with most points: *Year 8.*
House with the most points: *Bosco.*

Bosco House has won the first Maths Challenge.

A total of 86 students entered.

House with most entries: Vicuna.

Year group with most entries: Year 7.

Year group with most points: Year 8.

House with the most points: Bosco.

Top Scorers in the School
Rebecca C. Y8 BOSCO
Alessandra V. Y12 BOSCO
Alexandra V. Y12 BOSCO
Lauren S. Y11 VICUNA
Jacob P.P.G. Y11 BOSCO

The next Maths Challenge is coming up soon- make sure you enter!
House points will be awarded to everyone who entered and extra points to those that did really well.



Painting by Melina del Mar

Chaplain's Corner: Reflections

1 Thessalonians 5:16-18

Rejoice always, pray without ceasing, give thanks in all circumstances; for this is the will of God in Christ Jesus for you.

Some thoughts on the scripture:

Every time I read 1 Thessalonians 5:16-18, and the surrounding verses, I'm deeply encouraged. Here, Paul gives his final instructions to the Church at Thessaloniki, calling them to love, act justly, and do the will of God. Not only that, but he tells them how they can accomplish all this. Paul says, "Now may the God of peace himself sanctify you completely, and may your whole spirit and soul and body be kept blameless at the coming of our Lord Jesus Christ. He who calls you is faithful; he will surely do it" (1 Thess. 5:23-24).

Now that we begin a new term let us apply this encouragement and act upon these attributes.

Prayer/reflection:

Lord,
like David, I need your encouragement in a time of confusion.
Thank you that you are always on the throne, always my God, ready to save.
Thank you for being the same God to me that you were to David.
Thank you for always being near and always rescuing me from my fears and doubts.
Lord, help me remember that daybreak might be just ahead, that this uncertain time will not last forever.
Fill me with hope that daybreak is coming and that your love will always prevail!
Amen

Stay safe All,
Miss X.Hagan



Safeguarding

Important Notice from the Safeguarding Officer - there is a copy of our Safeguarding Policy on the College Website. A hard copy of this is available in the College Office.



Contacting the College - Direct parents access to college via email
contact@stmichaelscollege.org.uk For absence please phone: 0207 237 6432 EXTN. 730

