

## Week 10

Dear parents and girls,

It's hard to believe it's the month of June already!

I hope you are all well and enjoying the beautiful weather. Don't forget your sunscreen!

This is a short "school week" as we were due to have Tuesday off as well as Monday. I have marked work for three days. Watch out for video links in Maths.

If you are looking for extra activities look back at suggestions for previous weeks and look at the Boredom Busters section on the school website. You will find activities to keep the whole family occupied.

Have a good week and keep washing your hands!

Ms Browne

09.00-09.30 Begin each day with some exercise to help wake up your mind. You could join Joe Wicks, do some yoga, dance to go noodle or any exercise of your choice.

09.30-10.45 Maths/Gaeilge/English

10.45-11.00 Break time-exercise in the fresh air if possible, eat a healthy snack

11.00-12.00 RTE School Hub (make a note each day of two or three things you learned)

12.00-12.45 Time to complete unfinished work from earlier or pick something from the list given at the bottom of the page.

12.45-13.15 Lunch time

13.15 onwards have some fun

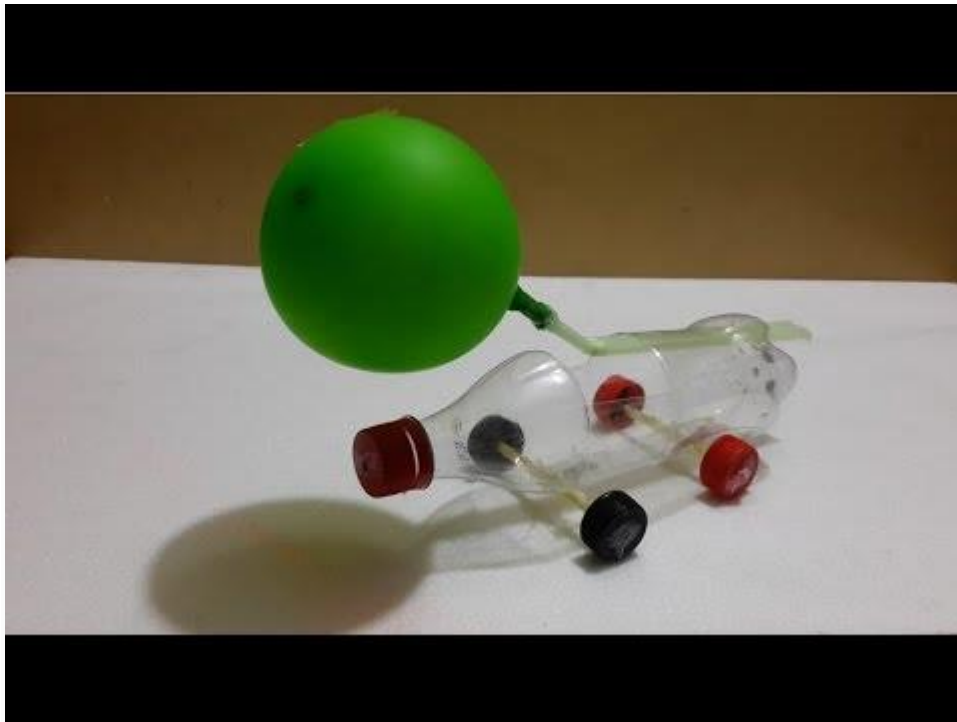
Last week we looked at Flying Machines and some of you might have read about the Wright Brothers. This week we are continuing with the theme of Transport and you might like to try out these experiments or read about other forms of transport. If you prefer you can try these experiments in the afternoon during project time.

**Balloon Powered Cars:** Last week you were learning all about flight and the history of flight. Did you try and make the paper rocket and the paper aeroplane, or did you use 3D shapes to create a model Flying Machine? This week, we will be looking at other forms of transport. Today I am going to give you instructions on how to make a balloon powered car! This experiment explores the scientific reason that 'For every action, there is an equal and opposite reaction.' So, for everything you do, it causes something else to happen. Watch this video to learn more about forces.

<https://youtu.be/Kdqqglsplhs>

Now try making this balloon powered car using a water bottle. Follow the steps outlined, watch the video for extra help!

<https://youtu.be/HJJZoekmvCE>



**Title :** Water Bottle Balloon Powered Car

**Aim:** To prove Newton's law 'For every action, there is an equal and opposite reaction.' (To get the car to move)

**Equipment:**

- 4 x bottle tops
- water bottle
- 2 x bamboo skewers
- 3 x straws
- masking tape/sellotape
- scissors

**Method:**

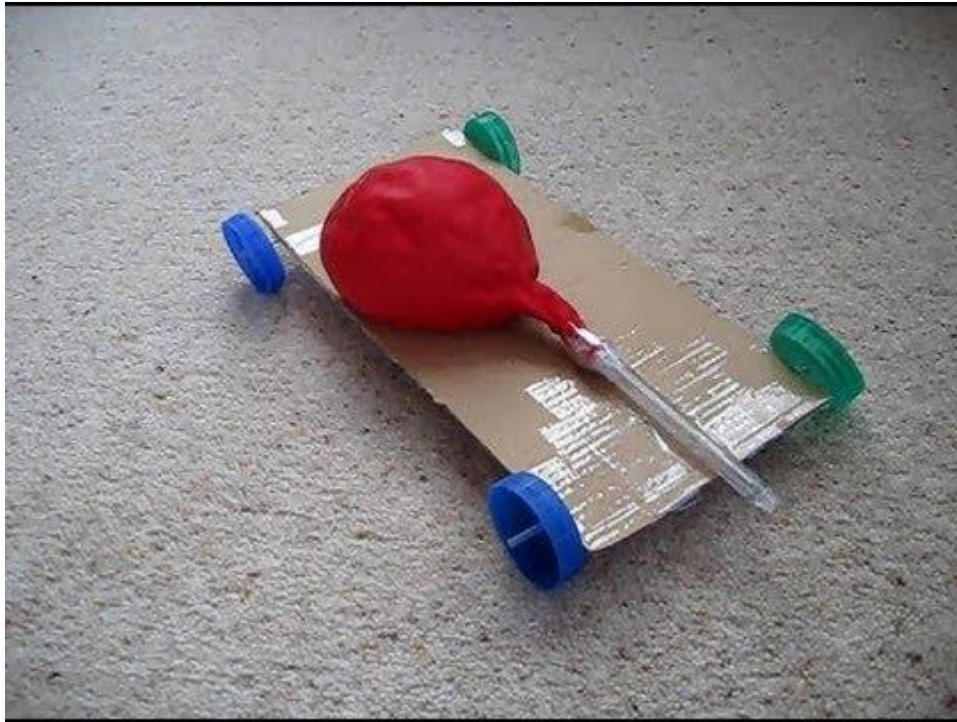
1. Rinse and clean a water bottle thoroughly.
2. Measure across the bottom of your bottle and cut two pieces of straws the same width as the bottle.
3. Tape the straws to each end of the bottle, one an inch from the bottom, the other an inch from the domed part of the bottle. Make sure the straws are straight and parallel to each other.
4. Cut two bamboo skewers. These will form the axles of your car. They need to be 1 inch longer than your straws.
5. Slide the skewers into the two straws.

6. Punch a hole in 4 bottle tops, carefully using a compass.
7. Slide the bottle tops onto the skewers. Now you have your wheels!
8. Punch an x in the side of the bottle, just below the dome part (the bottom)
9. Place a balloon over the top of the straw and secure tightly with sellotape. You do not want any air getting in or out!
10. Insert the straw into the bottle, bendy side first, through the x you just made. Feed it through until it comes out the top, with the balloon hanging out at the end. This is the engine!
11. Place the car on a smooth, flat surface.
12. Blow air into the balloon. Pinch the straw so the balloon will inflate. When ready, let go of the balloon.

What do you notice? Can you describe what happens?]

Try it this time making the car out of cardboard.

[https://www.youtube.com/watch?v=QzY9RH\\_JnL0](https://www.youtube.com/watch?v=QzY9RH_JnL0)



**Title:** Balloon Powered Car

**Aim:** To prove Newton's law 'For every action, there is an equal and opposite reaction.' (To get the car to move)

**Equipment:**

- 4 x bottle tops
- cardboard
- 2 x bamboo skewers
- 1 x balloon
- 3 x straws
- Masking tape or sellotape
- scissors

**Method:**

1. Cut out a 3 inch by 6- inch rectangular piece of cardboard.
2. Cut your straws into two 3inch pieces.
3. Tape the straws to each end of the cardboard by laying them across it width wise, making sure they are straight and parallel to the ends of the cardboard. Secure tightly with sellotape.

4. Cut two 4- inch bamboo skewers. These will form the axles of your car.
5. Slide the skewers into the two straws.
6. Punch a hole in 4 bottle tops, carefully using a compass.
7. Slide the bottle tops onto the skewers. Now you have your wheels!
8. Place the top of the balloon over a straw and secure tightly. Make sure that no air can get in or out.
9. Place the straw and balloon lengthways along the car and attach with sellotape.
10. Place the car on a smooth, flat surface.
11. Blow air into the balloon. Pinch the straw so the balloon will inflate. When ready, let go of the balloon.

Results:

Is there a difference between the car made from the water bottle and the car made from cardboard? Which is more durable? Which is stronger? Does one car go faster or further

than the other? Try the car on different surfaces: carpet vs tiles vs countertop? Does the surface make a difference to the movement of the car?

Make notes of your findings and the different experiments with the 2 cars. I would love to see what you discover!

Day 1

**RELIGION:** Last Sunday, May 31<sup>st</sup> was Pentecost Sunday. If you didn't get a chance to watch/listen to Mass you may be able to access it on your parish website, if not it should be available on Carrigtwohill Parish Facebook page. Here is one of the readings from Sundays Mass, read through it and take some time to consider what it might mean to you.

### 1st Reading: Acts 2:1-11

*The Spirit of God inspires the apostles and sends on their mission*

When the day of Pentecost had come, they were all together in one place. And suddenly from heaven there came a sound like the rush of a violent wind, and it filled the entire house where they were sitting. Divided tongues, as of fire, appeared among them, and a tongue rested on each of them. All of them were filled with the Holy Spirit and began to speak in other languages, as the Spirit gave them ability.

Now there were devout Jews from every nation under heaven living in Jerusalem. And at this sound the crowd gathered and was bewildered, because each one heard them speaking in the native language of each.

Amazed and astonished, they asked, "Are not all these who are speaking Galileans? And how is it that we hear, each of us, in our own native language? Parthians, Medes, Elamites, and residents of Mesopotamia, Judea and Cappadocia, Pontus and Asia, Phrygia and Pamphylia, Egypt and the parts of Libya belonging to Cyrene, and visitors from Rome, both Jews and proselytes, Cretans and Arabs-in our own languages we hear them speaking about God's deeds of power."

Living a Spirit-Filled Life.

On the first Pentecost, the Holy Spirit gave the followers of Jesus strength and power like a mighty wind. And, like the wind, it moved them individually and as a group, to do things they had never done before- to live in a new way with a new sense of courage and determination, and all because they were filled with the Holy Spirit. In Confirmation, the same Holy Spirit comes to us like a mighty wind, giving us strength and courage to find new and better ways to bring about the Kingdom of God in our own place and time.

Think about it...

Can you recall a time when you were moved by the Spirit to do something at home, at school or in your community to help others?

### SHORT DIVISION VIDEO

<https://youtu.be/JmZHcaVVGpW>

**MATHS:** This week we are going to do some revision starting with division. Watch the video and then try these short division sums. Some will have remainders!

(a)  $72 \div 8$  (b)  $48 \div 6$  (c)  $72 \div 9$  (d)  $53 \div 6$  (e)  $31 \div 4$  (f)  $246 \div 2$  (g)  $378 \div 6$  (h)  $359 \div 4$

(i)  $832 \div 9$  (k)  $766 \div 8$  (l)  $597 \div 6$  (m)  $648 \div 5$  (n)  $643 \div 9$  (o)  $507 \div 4$  (p)  $746 \div 9$

## GAEILGE:

Buzzy lth 105 Dán deas. Éist leis an dán agus bain triail as duit féin.

[http://data.cifallon.ie/resources/seo\\_lear/SL\\_5C\\_T06\\_U18/index.html](http://data.cifallon.ie/resources/seo_lear/SL_5C_T06_U18/index.html)

Aimsigh an strainséir (odd one out)

1. Deich, fiche, cúigear, caoga
2. Seamróg, Naomh Pádraig, paráid, reiteoir
3. Gualainn, muineál, glúin, buataisí
4. Pictiúrlann, caora. Amharclann, músaem
5. Foireann, ag traenáil, imreoir, traein
6. Bláthanna, cartún, gairdín, fiailí
7. Gruaig, scáthán, seampú, ag cur fola
8. Doirteal, tuáille, leithreas, madra
9. An chistín, an halla, seomra codlata, leabharlann
10. Geansaí, cluas, rúitín, lámh

Day 2

## RELIGION

### THE FIRST CHRISTIANS

Read this passage from Acts of the Apostles, which describes what happened when the people of Jerusalem heard and believed Peter's message on the first Pentecost.

#### Life Among the First Christians (Acts 2:41-47)

Many of them believed his message and were baptised, and about three thousand people were added to the group that day. They spent their time in learning from the apostles, taking part in the fellowship, and sharing in the fellowship meals and the prayers.

Many miracles and wonders were being done through the apostles, and everyone was filled with awe. All the believers continued together in close fellowship and shared their belongings with one another. They would sell their property and possessions, and distribute the money among all, according to what each one needed. Day after day they met as a group in the Temple, and they had their meals together in their homes, eating with glad and humble hearts, praising God, and enjoying the good will of all the people. And every day the Lord added to their group those who were being saved.



- What special thing happened to the people who believed Peter's message?
- Can you name some of the things that these believers did from day to day, which showed others that they were followers of Jesus?

### **JOURNAL EXERCISE**

- How would you describe the first Christians – the kind of people they were? Make a list of words that you would use to describe them in your Religious Education journal.

### **THE FRUITS OF THE HOLY SPIRIT**

St Paul wrote a letter to the young Christian community in Galatia, in ancient Turkey. In his letter he said that if we are led or guided by the Spirit, then we will live 'Spirit-filled' lives. St Paul described Spirit-filled lives as lives filled with love, joy, peace, patience, kindness, goodness, gentleness, faithfulness and self-control. These characteristics will be small at first, like seeds, but, if we allow the Holy Spirit to work in us, they will eventually grow to be like fruit on a tree, on display for everyone to see.

### **FOR MEMORISATION**

The Fruits of the Holy Spirit are: love, joy, peace, patience, kindness, goodness, gentleness, faithfulness and self-control.

Write out and decorate the Fruits of the Holy Spirit.

### **LONG DIVISION VIDEO**

<https://youtu.be/zfxRGT8D6f0>

### **MATHS**

Watch today's video to help revise long division and then try these long division sums. Some might have remainders!

(a)	(b)	(c)
1. $374 \div 18$	$375 \div 16$	$387 \div 23$
2. $542 \div 36$	$623 \div 28$	$518 \div 34$
3. $726 \div 43$	$593 \div 39$	$485 \div 47$
4. $793 \div 58$	$849 \div 73$	$938 \div 67$
5. $946 \div 78$	$974 \div 83$	$897 \div 92$

**ENGLISH:** Read "Stations and Train Journeys" pg 240-240 and answer B,C and D orally. Write E completely in your copy. Mind your handwriting!

### **GAEILGE/MUSIC**

Báidín Fheilimí is a song about Phelim's boat, keeping with our theme of transport. Listen to the song a few times and sing along when you're ready. I bet your Mom or Dad will remember the song from their schooldays.

<https://www.youtube.com/watch?v=Ag99KDfF9Q8> (na Casadaigh singing )

Day 3

**RELIGION:** Read over the Fruits of the Holy Spirit again. Which of the fruits of the Holy Spirit can you already see in your life? Which ones would you like to develop further?

### **Fruits of the Holy spirit in action**

Read these stories of what happens when people allow the gifts of the Holy Spirit to bear fruit in their lives.

**Sister Stanislaus Kennedy**, or Sister Stan, as she is known, was born in County Kerry in 1940. At the age of eighteen she felt that God was calling her to a particular way of life, and she decided to become a religious sister. Sr Stan became aware that there were big differences between the lives of those who had enough or plenty of money and the lives of those who lived in poverty. She moved to Dublin in the early 1980s and set about trying to tackle the issue of homelessness. In 1985 she founded the organisation that is now known as Focus Ireland, which helps people in poor circumstances to find and maintain a home. In 1998 Sr Stan also founded The Sanctuary, a meditation centre in Dublin city, where people can find some quiet space in their busy lives.

**Willie Bermingham** was born in Dublin in 1942. In 1964 he joined Dublin Fire Brigade as a firefighter. Through his work he came across many older people living in awful conditions. Some of them had no heating, others had very little to eat, and many were simply very, very lonely. So, in 1977, Willie founded the organisation called ALONE, whose slogan is 'A Little Offering Never Ends!', to support older people and offer them friendship. Willie died in 1990, but the ALONE organisation is still doing the work that he started. It supports older people who have difficulties with loneliness, social isolation, poor health, poverty, poor housing or homelessness.

I'm sure you have heard of ALONE recently. The organisation is still providing support to older people during the Covid 19 emergency.

Think about how the fruits of the Holy Spirit can be seen in the lives of the people described above.

MATHS:

Continue with long division. Remember to put the decimal point in the correct place!



Use the long division method when doing these. Estimate

1. (a)  $888 \div 24$  (b)  $828 \div 18$  (c)  $972 \div 36$

2. (a)  $702 \div 27$  (b)  $684 \div 38$  (c)  $989 \div 43$

3. (a)  $754 \div 29$  (b)  $736 \div 46$  (c)  $306 \div 18$

4. (a)  $845 \div 65$  (b)  $805 \div 23$  (c)  $925 \div 37$

ENGLISH:

Continue with the exercises in Up and Running pages 244 and 245 if you're not finished.

You might like to watch a video about the history of trains

<https://www.youtube.com/watch?v=ctGd1ov1k9A>

Or find out about Henry Ford who founded the Ford Motor Company

<https://www.youtube.com/watch?v=J9OgpHGxDbY>

**GAEILGE/MUSIC:** Continue to practice Báidín Fheilimí. Do you know any other songs about Transport?

#### EXTRA WORK

Check out **Boredom Busters** on the school website.