

26th April 2020

EAGLE'S NEST NEWS

WELCOME

Hi everyone! Welcome to your next issue of ENN. We hope you've had a great week and enjoyed your Easter hols.

A big shout out to all those who contributed to this edition! Well done, it was great to receive and share your lovely work.

This issue is packed with all things science so get your thinking caps on and try out the activities. Remember, we want to see what you're doing, so send in your pictures, videos and comments for us to share with your fellow readers.

That's all for now, stay blessed and have a fantastic time until we meet again in two week's time for the next issue.

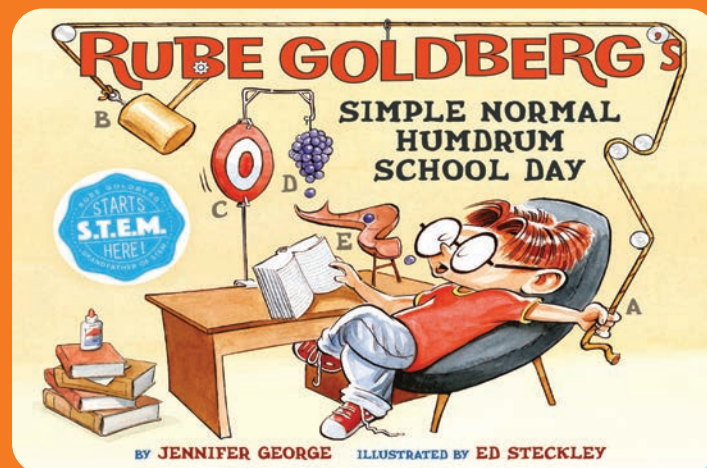
All God's blessings

ENN Team

Get experimenting!

Here are some cool experiments to try at home - once you've got permission!!!

<https://youtu.be/4MHn9Q5NtdY>



A Rube Goldberg machine is named after American cartoonist Rube Goldberg. His cartoons featured a machine that performed a simple task in an overly complicated way. His 'machines' used the principle of a chain reaction to achieve an end goal. A chain reaction is a sequence of events where one thing triggers another. Watch the video <https://youtu.be/h0G3Rnt7HR4> and read this document for more info.

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We challenge you to design and build your own machine.
Email your video to us ENN@kicc.org.uk

KEEPING HANDS CLEAN



Sanitise
your hands

During this time we have all been told to wash our hands with soap and water for 20 seconds to remove any germs. If we don't have access to soap and water then hand sanitizer is the next best thing. But what is hand sanitizer and how does it work?

Watch this video to find out!
<https://youtu.be/UjQ6HSq3UIk>



DO YOU
KNOW?

Find out more about how things work with Maddie
<https://www.bbc.co.uk/cbeebies/shows/do-you-know>
on Maddie's Do You Know?

STEMettes

♥ ★ # +

The Stemettes is an organisation focused on showing the next generation that girls can do Science, Technology, Engineering & Maths (STEM) too. Due to the current lockdown, the Stemettes will be running a series of online events.

Check here for details of upcoming events:
<https://stemettes.org/onlineevents/>

OVER TO YOU...

We were so impressed by your submissions! Well done everyone! Take a look at what has been sent in for this issue and remember - we always want to see what you've been up to so don't be shy!! God bless you

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Who likes butterflies?



Butterflies are beautiful creatures but why are they so colourful? Is there a reason?

Watch the video to find out more:
<https://youtu.be/7M17INjyGD4>

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Feeling crafty?

Download a butterfly template to colour or make a paper plate butterfly here
<https://www.hobbycraft.co.uk/ideas/kids/how-to-make-a-paper-plate-butterfly>

We'd love to see your butterfly creations, please do email them to ENN@KICC.org.uk

KEEP ON DISCOVERING!



Key Stage 1

Use this link to get more great science games, and topics on animals, plants, the human body and more <https://www.bbc.co.uk/bitesize/subjects/z6svr82>

Key Stage 2

Click here for your awesome science based content <https://www.bbc.co.uk/bitesize/subjects/z2pfb9q>



Azaiah is turning 6
 Nicole is now 11

Seth, Esther and Benjamin's Daddy,
 Minister Tokunbo, is celebrating too!



FLYING OBJECTS!

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Try out these 2 experiments to investigate the forces involved in how planes fly and the effects of air pressure, air resistance and gravity.



SECRET COMMUNICATIONS...

What do you do when you want to talk to someone but you can't use words? Check out this Mystery Science project!

<https://mysteryscience.com/light/mystery-5/light-communication-engineering/131#slide-id-2770>

You can use light to communicate information. In the activity, Secret Signals, you can work with a partner to build a device that solves the problem of communicating over a distance.

You will need

A partner
 The colour code print out
 Coloured pens – ideally red, blue and green. Don't use colours that are similar as it may be confusing.
 2 torches (hint: ask your grown up for their phone!)

You will need to do this activity in the dark with the lights off and curtains drawn.

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SAY WHAT?!

Words have energy and power. That means we can, and do, use words to create things!

Check out this scientific experiment that was conducted in a school, to show how powerful our words are: <https://youtu.be/Yx6UgfQreYY>

The children conducted the experiment to understand how bullying affects people but let's go one step further...

The Bible tells us that a person speaks the things that are in their heart, the things they have been thinking about. (Luke 6:45). That means whatever we have been thinking will come out of our mouths, and what we say will affect what we do.

Let's look at an example... John has always wanted to learn to play the guitar. His friends told him not to bother because he probably wouldn't be any good at it. He asked his big brother, who simply laughed and said

'You're not very good at music'. John thought about what he was told and believed the negative words. He then told himself 'they're all probably right. I won't try, it probably won't work'. Can you explain what happened to John? What could he have done differently? Here are some scriptures to help you. Can you discover anymore? Think about the things that are true and honorable and right and pure and beautiful and respected. Phillipians 4:8

For as he thinks in his heart, so is he. Proverbs 23:7

Think it through... Think of 5 positive things about yourself and tell us what they are. How did you feel when you were thinking about them and saying them aloud?

Your words matter. Decide today to use words to bless yourself and others.



Is baking a really science?

Yes! Science involves precision and chemistry! When you bake you need to measure your ingredients and every ingredient has a part to play. When you bake your creation it causes a chemical reaction called endothermic reaction. So, baking is chemistry. Want to know more? Watch this video to discover the science behind baking.

<https://youtu.be/MBouLt-hXDU>

Have a go at baking your own cake and bread.

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The No Bake Cake

If you don't want to bake, try this no bake chocolate cake recipe, it's just as yummy :-)

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What kind of cake are you?

Take the quiz to find out! <https://www.bbc.co.uk/cbeebies/puzzles/lets-go-club-cake-quiz>

We were juicy pineapple upside down cakes!!

Hands up if you like chocolate!!



Do you know how chocolate made? Click the link to find out more <https://youtu.be/WFL6llwU39k>

Questions, questions, questions!

Why do rainbows appear?
Why is their sand at the beach?
Are unicorns real?!

NEVER STOP asking questions guys, it's the best way to learn! If you have a science based question email it in and we will do our best to find out the answer and share it in the next science-based issue.

NUMBER CODING

Code doesn't always have to be letters. Another easy way to create coded messages at home is substituting numbers for letters.

A=0	I=8	Q=16	Y=24
B=1	J=9	R=17	Z=25
C=2	K=10	S=18	
D=3	L=11	T=19	
E=4	M=12	U=20	
F=5	N=13	V=21	
G=6	O=14	W=22	
H=7	P=15	X=23	

SECRET CODES

Using the code above, can you crack our special message to you?!

24, 14, 20

0,17,4

0,22,4,18,14,12,4

TIME FOR A LAUGH..



Why did the student eat his homework?
Because the teacher told him it was a piece of cake!

Send in your best joke and we will share it with everyone

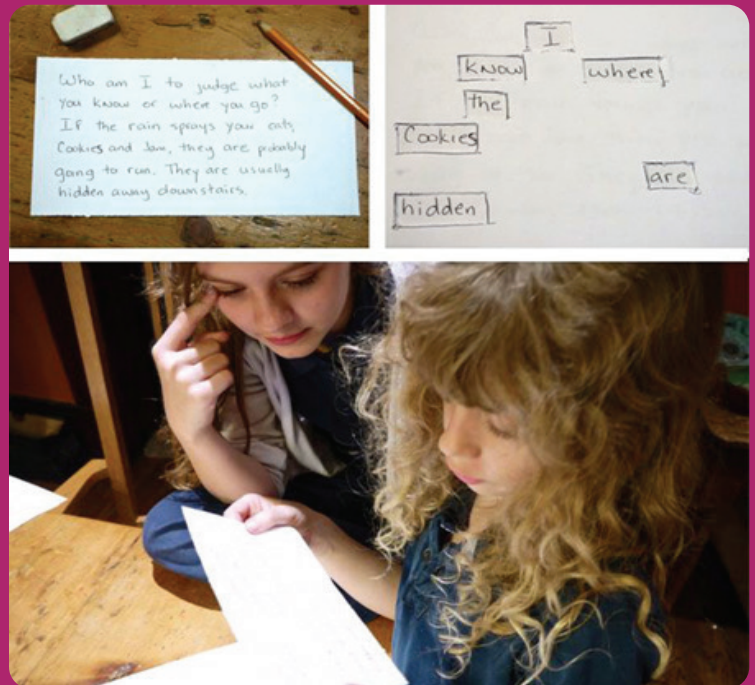
Cardan Grille code

The Cardan Grille was first used to disguise a secret message by Renaissance mathematician Gerolamo Cardano (Italy) in 1550. The technique is used to hide a message in an ordinary looking document. The message would then be read later by someone who also had a copy of the same Grille – which would always be sent to them separately.

HAVE A GO!

Work with a partner!

1. The writer of the message places a piece of card with small irregular slots cut into it - a Cardan Grille. Both you and your partner will need to use the Grille.
2. Place your Grille over a sheet of plain paper
3. Write your message in the slots.
4. Remove the Grille and write sentences around your words. Thereby creating an apparently ordinary looking message.
Your message can now be read by your partner using the Grille.
5. Creating the first message is easy... can you use the same Grille to send another coded message? Please email us a picture of your handiwork!



SOCIAL DISTANCING IN THE BIBLE

During this time of the coronavirus, the phrase “social distancing” has entered our vocabularies. Are there situations in the Bible that found people reluctantly or purposely practicing social distancing? Use the biblical clues below to answer the questions. If you need help, check the Bible reference.

1. I said, “It is not good for the man to be alone.” I didn’t like “social distancing.” (**Genesis 2:18**) Who am I?
2. Because of a grievous sin against my brother I was forced to go and live in the land of Nod. (**Genesis 4:15–16**) Who am I?
3. My wife and three children and their wives were all alone on a boat and probably didn’t have much “social distancing.” (**Genesis 8:13–18**) Who am I?
4. First my brothers threw me in a pit where I was alone until they sold me into slavery. Later I found myself in prison. Talk about social distancing. (**Genesis 37:23–28, 39:20**) Who am I?
5. I went up Mount Sinai after the Exodus to receive God’s laws. I was alone on the mountain but there was no “social distancing” from God. (**Exodus 19:20**) Who am I?
6. I saw my mentor and master practice a type of “social distancing” when he was taken up to heaven in a fiery chariot. (**2 Kings 2:9–12**) Who am I?
7. I sat in sackcloth and ashes, practicing “social distancing” as I pondered great losses of family, property, and possessions. My friends tried to counsel me but made little progress because they assumed God was punishing me for sin. (**Job 1:20–22, 2:7–8**) Who am I?
8. My name is Jonah and I tried “social distancing” from God but He caused me to spend time alone in the belly of this animal. (Jonah 1:17) What was the animal called?
9. As I was dying, I felt forsaken by my Father and cried out in my pain and isolation because of this “social distancing.” (**Matthew 27:46**) Who am I?
10. No, I was not practicing “social distancing” when I climbed a sycamore tree. I just wanted to see Jesus. (**Luke 19:1–5**) Who am I?

THE LOVE OF GOD



Temi’s parents were very successful entrepreneurs and he enjoyed a lavish lifestyle, expensive clothes, shoes, latest gadgets, you name it! Yet he was unpopular because he was not interested in the same things as the other boys, such as football. This made him sad!

When a new boy, Ben started to attend Temi’s school and took interest in being his friend. Temi wondered if Ben’s continued friendship was due to his Parent’s wealth and the benefits of going out to the movies, treats to the shopping malls and the adventure parks with them.

At the hint that Temi’s Parents business might be in financial trouble Ben’s true intentions were revealed, he stopped trying to arrange times to meet up and eventually stopped talking to Temi.

Temi was disappointed, he spoke to his Parents, who assured him that he should love himself, because he was unique and loved, even the name Teminioluwa means ‘I belong to God’ as in the Bible in Psalm 139:14, it says that we are all fearfully and wonderfully made, and no one was a mistake.

Also, in John 3:16, it tells us how much God loves us and sent Jesus, His only son to die for each one of us and if Temi was the only person on earth Jesus still would have sacrificed himself, because that is how much God loves Him.

Temi studied the word of God more and found a new friendship in God. Temi was truly happy, he learnt about his abilities and strengths in God which helped him reach out to many others in sharing the love of God through his experiences.

By Abigail, aged 11

NOAH AND THE ARK

A poem by N.J.O aged 11

There once was a man named Noah
Who was a special friend of God,
Noah spoke to Him about everything
And paid attention to His Word

Noah loved the people,
Though they had their sinful ways
Fascinated by their culture
He wanted them to be safe

One day God said to Noah
Build an ark my little friend
A week after you are done
Sinful world shall come to end

Gather male and female each
Of every creature you can find
And I will make your family
The sole survivors of mankind

So out went Noah to town
And tried his best to spread to word,
The people were too deep in sin,
To heed the warning of the Lord

God was pleased with Noah's work
When he finished building
He closed the door of the ark
While the people kept on mocking

For 40 days and 40 nights
It rained like grains of sand
To wash away the sin
Humans inflicted on the land

Then, on a sunny day
Noah sent out a dove,
He rejoiced to find dry land,
A blessing from above

Then there was a rainbow
'Cos, just to be sure
God made a promise
He would do this no more

Read another poem here!

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MEMORY VERSE

Remember, I commanded you to be strong and brave. Don't be afraid, because the Lord your God will be with you wherever you go." Joshua 1:9 (ERV)

PRAYER

Dear God, thank You for helping me to be brave when I face fear or danger. I trust and depend on You always, knowing You never let anyone down. In Jesus' Name. Amen

SOCIAL DISTANCING OR SPIRITUAL DISTANCING

Do you know what social or spiritual distancing means? It is a rule to stop us from getting too close to people outside our homes so that if they are poorly we don't catch their germs and become poorly like them. Jesus also

distance ourselves from? We can call this Spiritual distancing. Things that God wants us to stay away from. Read the scriptures below and Spend some time to discussing with your family. Share your comments with us at ENN@kicc.org.uk.



wants us to keep ourselves from getting too close to some things in the world so that our hearts do not become poorly and sinful. Look at the pictures below and draw a circle around those things that **will stop us** from growing close to God. God wants us to listen and obey His word, because He loves us so very much, that's why He wants to keep us away from sin. Can you think of things that God will wants us to

"Do not be deceived: "Evil company corrupts good habits 1 **Corinthians 15:33 Easy-to-Read Version (ERV)**

"You people are not faithful to God! You should know that loving what the world has is the same as hating God. So anyone who wants to be friends with this evil world becomes God's enemy. **James 4:4 Easy-to-Read Version (ERV)**



WE'D LOVE TO HEAR FROM YOU!

Send your competition entries, comments and Birthday shout outs to us at: ENN@kicc.org.uk