

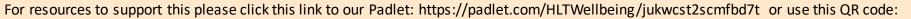
Home Learning Introduction: Topic 13 Let's Create! Patterns



We hope you are all keeping safe and well. These may be of help to you, particularly if you are trying to manage several children's needs or have limited access to the Internet. Page 1: activities – no IT needed Page 2: web links - if you have internet access and some extension.

The most important thing is that you are calm for your children and should only do whatever you can manage. Remember that children also learn a lot through play such as Lego and playing games and even through chores such as helping to prepare a meal. Great learning can happen when it's not always adult directed.

Wellbeing and Building Resilience



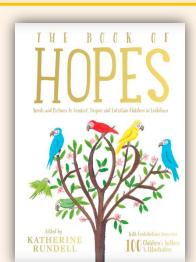


Being Kind Being Kind to Yourself – Being hopeful

So much has happened to all of us in such a short space of time. Whilst we need to remember and learn from the past we also need to look towards the future and what the future might have in store for us all. Believing that things can get better is called being hopeful. We all hope for something. Sometimes being hopeful can be described as looking at 'the bright side of something and seeing a challenge as a valuable learning opportunity. Something good can still come out of a difficult situation.

Here are some ways of how you could be hopeful:

- Write down your hopes and dreams for the future. These can be small (short term) or big (long term) hopes!
- Who can help you reach your dreams? Reflecting on and writing them down can make you feel happy and excited!
- What do you hope to be when you grow up? (job wise) What do you think you need to do to get there? Ask an adult.
- Genuine generosity is linked to hope. Should we give to someone else without expecting anything in return?
- Discuss with an adult.
- If you are met with a challenge, say to yourself 'I can do this!' This is called personal motivation.







Read The Book of Hopes by Katherine Ruddell: a free children's book by over 110 authors and illustrators here

The great dilemma, questions to think and talk about (Philosophy for children: P4C)

Patterns of behaviour are called habits, things we do regularly that are hard to give up or stop. Can a habit be good or bad? If someone has a habit that you don't like, does that mean it is a bad habit? Is craft an art?: Quilting is an ancient tradition that has been done for 100s of years. Small pieces of material often left over from something else or from old scraps would be joined to make 1 large piece. It was often a communal activity that would be done by large groups and often for a purpose e.g. to make a bed covering before someone got married or a cover for a new baby. Do you think a craft, making something for a use e.g. to cover a bed be considered as art? If lots of people worked on it but it is for one person, who does the piece belong to?



Escher created 2-colour tiles with counterchange symmetry by splitting tiles within a tile with 4-fold (90°) rotation symmetry. Can you see that the black lizard is identical to the white lizard-just rotated?



Create your own Escher inspired tessellation by drawing a pattern on a square tile and then cutting the piece off. Take the cut off piece and stick it onto the opposite side of the tile. Click the link below to see how: https://www.youtube.com/watch?v=Ca 5J moee7L

Create your own pattern

What comes next in the pattern?



What about this next sequence?think carefully about what the next 3 shapes will be.



Can you make up your own pattern for an adult to continue?

Think of up to 4 different shapes. Draw them in a particular order and repeat the order. Triangle, square, circle, triangle, square, circle etc. This is an ABC pattern as the shapes

follow the order ABCABC If you gave this pattern to an adult, they would easily be able to follow it. Make it more difficult by adding two repeated with the order

ABCABC, ADAD, ABCABC, ADAD

Humanities

How many squares? Investigation

A 2x2 square has 5 squares within it - the outside square + the 4 inside squares.

A 3x3 square has 14 squares within it. It has 9 small 1x1 squares, the outside 3x3 square and 4 overlapping 2x2 squares shown in red, blue, green and vellow



2x2 = 5 squares 3x3 = 14 squares How many squares are within a 4x4 square? How many did you find? Did you find 30? Try solving a 5x5 and 6x6 square. Can you spot any patterns between the type of square nxn square and the amount of squares within that square s? Can you think of a formula between n and s?

* see page 3 - the website link

Patterns and Rhyme!

Did you know that when poems rhyme, they follow a pattern! The words at the end of each line might rhyme. A code is given to the rhvme:

A.A.B.B

This means the first 2 lines rhyme (A.A) and then the next 2 lines rhyme (B,B) E.g.: It sounds like this. (A) When a snake goes HISS! (A) It sounds like that, (B) When a rat goes SPLAT! (B)

A.B.A.B

This poems first line, (A) Not the next one you read. (B) Is really rather fine, (A) And it is the only rhyme you need!

Now you have a go!

Thinks of as many rhyming words as you can (use your phonics to help!) and then make a patterned

Decide if it is going to have an A.A.B.B or A.B.A.B

Spike Milligan wrote nonsense poems with made up words like: On the Ning, Nang, Nong, Where the cows go Bong! So you could always make up some new words!



The Willow Pattern Story

this pattern before on china plates, cups etc.. It is called 'Willow Pattern'

They were designed in 1790 and believed to be based on an old Chinese legend. The story was: A rich merchant wanted to marry his daughter. Tso Ling, to another rich merchant, but she had fallen in love with Chana, her father's clerk, They ran away together across the sea to a cottage on the island. Her father followed and was about to have them killed when the gods transformed them into a pair of turtle doves, (these are seen at the top of

and painted on plates, cups, saucers, teanots and lots more, and sold all over the UK. It almost a story map on a plate.

Think of a famous fairy tale, myth or

understand the story!



Spelling patterns!

Patterns in words help you remember how to spell them. Have a go at these fun game

You could play this with someone

else: Start with your name or Mum/Dad (or your favourite word): Write down another word starting with the last letter of your word Mum - M Continue until vou run out of words! How many words in your train? I started with ANT Ant. Tea. Add. den. Net. Toe You could make it harder by having to write a longer word each time e.g. a 3,4,5,6,7,8,9 etc. Letter word! Word Ladders: invented by Lewis Carol who wrote Alice in Wonderland!

You need is a piece of paper and someone to play with (but you can do it on your 3 or 4 letter word. Take turns to change only one letter to make a new word

Animal skin patterns

Some animals have specific patterns to help them to survive in their environment.

Design a pattern for the following animals which would enable them to survive in its habitats by combating potential dangers and blending into their environment.

- An animal that lives in the coral reef under the sea
- An animal that lives in a swamp with brown murky water and
- An insect that lives on a colourful flower bed



Coral ree

Skittles experiment

Science

You will need -Rowl

-Skittles -Warm water Get a bowl and some skittles and place them in the centre of the

bowl. Place them wherever you would like - round the outside of in the centre. Make a pattern with the

Before you pour warm water over the skittles, draw your bowl and the pattern that you think the skittles will make. Now pour your water over the skittles. Were you correct?





Why does this happen? Skittles are coated in food colouring and sugar. When you pour water over the skittles the coloured coating dissolves spreading through the water. The colour and sugar dissolve into the water and then diffuse through the water, making it the colour of the skittle

Fingerprint investigation

Did you know that we have patterns on our bodies that are unique to us! If you look dosely at your fingertips on the palm of your hand you will see swirls of lines. These are your fingerprints; your fingerprints will be different from your family and friends! Find out what they look like:

Either rub a pencil (notcolour) onto a

piece of paper or sprinkle a small amount of dust (flour, chalk, talcum powder, cocoa powder) on a table. Press your thumb in the dust or on the pencil rubbing. Place your thumb firmly on the sticky side of a piece of sellotape. Now stick your sellotape onto a piece of paper. Keep going until you get a clear print. Look at your prints - what patterns can you see? Compare yours to someone





African Fabrics

Ghanaian Kente cloths are made of

interwoven cloth strips of silk and

cotton. They all have a great deal of

meaning and is a way of communicating.

The colours of the cloth each hold

symbolism: gold = status/serenity,

vellow = fertility, green = renewal, blue



Creative Arts (see web links for music ideas)

Print like a pro!

William Morris was a significant artist during a time known as the Arts and Craft movement from 1880s. His designs were inspired by nature's flora and fauna. He used wood blocks to print repeated patterns to make wallpaper, Many artists handcrafted their work while some recreated with machinery. Make your own print block:

Print Making: String Art

- PVA glue -Pencil/scissors -Cardboard (cereal box is fine) -String or wool -Paint, plain paper



Draw a pattern onto the card - make it as simple or as detailed as you like. Glue the sting onto the pattern. like to cut shorter lengths of string

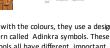
Create like the artists of the past and present

- 4. William Morris 1834-1896
- 7. Yinka Shonibare 1962-
 - = pure spirit/harmony, red = passion. black = union with ancestors/spiritual

awareness Along with the colours, they use designs that also carry meaning.







symbols all have different, important meanings and often say something about the values of the person wearing

weave with paper, fabric or wool. Or you can design using the Adinkra symbols onto paper. Can you tell a story using them? You could also design your own

Adrinka symbols too..

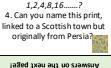
Pattern Quiz:

1. Harriet Powers was an American quilt maker, born into slavery in Georgia. She used applique to record local events. Is applique a) pieces of fabric sewn onto material



2 Tartan is woollen patterned cloth made up of criss-crossed bands in different colours - would vou be most likely to see it being worn in a) Poland or b) Scotland?

In the Fibonacci sequence. the next number is the product of the previous number multiplied by 2. What will come next:







Weaving

Weaving cloth using colourful patterns has always been important in Mayan culture for families, commemorations and for artistic purposes. Woven tapestries and brocades decorated homes as curtains, drapes and rugs. Mayan communities had their own textile design. Find out about other textile designers such as

Annie Elbers. Try weaving:

Take a piece of card and attach wool/string spaced evenly apart like the picture. Take different coloured threads and ask an adult to help you use a darning needle to weave different coloured threads through to make a pattern. Or try weaving a placemat with paper – cut strips 3/4 of the way up and thread coloured paper through over and under.







The Romans used thousands of tiny coloured stones (tesserae) to make mosaics which depicted daily life and used

pattern. Make your own mosaic

- 1. Take a piece of A4 card or paper. Divide it up into 1cm squares or use squared paper to help.
- 2. Sketch out your design try to include a repeated pattern. Choose limited colours.
- 3. Cut up 1cm squares of coloured paper or use magazines etc. And stick these onto the paper - this may take some time! If you don't have glue, colour the squares

instead. This is similar to pixelated images on a computer.







Topic 13: Let's Create: Patterns!

This week's topic is all about patterns. Patterns are designs where lines, shapes, forms

or colours are repeated. The part that is repeated is called a motif. Patterns can be

regular or irregular and have been used throughout history. Some examplesare spirals,

stripes, waves, tessellations (shapes fitting together) and symmetry.

This week's challenge: 1: Spot as many patterns as you can in your local area, nature

and at home – look at buildings, material, flowers etc.

2: Explore making different patterns through drawing, painting, printing,

weaving, knitting – even outside in a garden or green space (Wash your hands

thoroughly afterwards.)

3. Research some of the artists and designers from past and present such as

Andy Goldsworthy - their lives, how they created their art and any struggles they had

by others from around the world and their significance.

with their designs while they worked. Research different patterns used by your family or

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the nlate) This story was made into a pattern

Create your own pattern story plate:

legend (or make up your own version). Either on a paper plate or on a cutout circle draw the important parts of the story. Don't make your picture or story too complicated so it can be reproduced easily, and people can



Spellina train

own!).Start with a simple

A word can't be repeated in a game. The game ends when a player can't make another word. Start with a 3-letter word first: Dog, Cat, hot, bat Then try other words! Line, cold, long etc.

You will need:



Follow the lines carefully. You may to fit the pattern. Let it dry.

Paint over the dry string. Print the image onto paper, Did all the lines and shapes of your pattern come out. Use a different colour paint to print another image in a different colour.

- 1. Wassilv Kandinksky 1866-1944 2. Yavoi Kusama 1929-
- 3. Piet Mondrian 1872-1944
- 5. Andy Goldsworthy 1956-
- 6. Henri Matisse 1869-1954





These artists have all used a range of

different art mediums to create their

work. They all have a distinctive style.

Do you have a favourite? Some use

circles and dots, others straight lines

and bold colours. Many take their

inspiration from nature? Can you spot

which ones? Most of the examples

show a repeating pattern in the images.

Choose a favourite to try to copy. Start

small. A 10 by 10cm square is a good

idea. Then see if you can repeat the

same pattern over your paper. You

could use pencil, crayon, paint, fabrics

or things you find in nature (ideally on

the ground - not picked off the plants).



Along with the colours, they use a design pattern called Adinkra symbols. These

Can you create your own cloth? You can

Topic 13: Let's Create: Patterns!

These are links to websites – please practise Internet safety with your children whilst accessing these websites. Hackney

Useful websites for parents and carers:

In response to the coronavirus lockdown and backed by the Government, The Oak National Academy website, is a new collection of high-quality lessons and online resources. For more information for parents and carers: click here

2. The National Education Union has published a new website for providing advice, latest news and resources for parents and carers on the Coronavirus crisis:

Wellbeing, building resilience and PSHE:

- 1. What does it mean to have hope? Clickhere
- 2. Everybody Worries by Jon Burgerman: clickhere
- 3. Talking to children who are worried about coronavirus: click here
- 4. The CAMHS Alliance for Hackney has produced a comprehensive list for parents and carers click here



Little Mole

Hope: Glenys

Finds

Nellist



Bee, Satoshi

Kitamura







Frighten Me:

Jean-Michel

Jane Boyers

Maya Angelou,

Basquiat, Sara



Hope: Lara

Williamson





Garden: A story of Hope: Michael Foreman

Films and TV shows: The Really Wild Show Series 21 Camouflage;

Websites: https://kids.kiddle.co/Patterns in nature

Religious Education











Mandalas: These are circular designs with repeating shapes and they often hold spiritual significance e.g. in the Buddhist and Hindu religions. Drawing these can be

very the rapeutic! Askan adult to help you with using the compass. https://www.bing.com/videos/search?q=mandalas+for+kids&&view=detail&mid=C498 85A9EE4EC6720D14C49885A9EE4EC6720D14&&FORM=VDRVRV

Mehndi patterns from henna are used in Muslim and Hindu religions to signify the love between

a couple. The darker the ink the stronger the love. https://www.bbc.co.uk/teach/class-clips-video/religious-studies-ks2-mv-life-mv-religionhinduism-nikki-hemal-marriage-hindu-wedding-ceremony/zmgrkmn

Rangoli patterns are used by Hindus to welcome people into a home during Divali and can be made from different coloured materials like chalk and rice.

https://nrich.maths.org/5369

https://www.bbc.co.uk/teach/class-clips-video/religious-studies-ks2-mv-life-mv-religionhinduism-diwali-festival-of-light/z668qp3

Look at other uses of pattern in religious buildings such as in Islamic art (pictured above) and in church stained glass windows. https://www.ncetm.org.uk/resources/18030

Octopuss, Socktapuss: Nick Sharatt read aloud https://www.youtube.com/watch?v=el MgAH1V44

http://www.nicksharratt.com/drawing tips.html Nonsense Poems home learning BBC:

https://www.bbc.co.uk/bitesize/articles/zv3v6g8

Willow Pattern Story:

https://www.youtube.com/watch?v=Ge1LD8JDfYg

Information, poems and stories about Willow Pattern from the potteries:

http://www.thepotteries.org/patterns/willow.html

Word Games:

https://www.dltk-kids.com/type/word_ladders.htm

Spelling games: https://www.bbc.co.uk/bitesize/topics/zt62mnb

Books

Ν

R

and

KS1

Y1-

Y2

Y3-

EYFS The odd one out: Britta Teckentrup





The Willow Pattern

story: Allan Drummond

Hidden in plain sight-

Animal Camouflage:

Yavoi Kusama: From

Here to Infinity:

Sarah Suzuki

Elsie Belback

Cat in the hat: Dr Seuss







WIlliam Morris ABC:

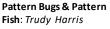
William Morris 123





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Animals with spots



Somethings Drastic:

Women in Art:

Rachel Ignotofsky

Poems by Michael

50 Fearless Creatives

Who Inspired the World:





Prill of any

stripes: Stephen R. Swinburne LOTS AND LOTS

Lots and Lots of zebra







Morris: VandA

Cloud Busting: Malorie Blackman



Introducing William

Maths

Answers to 'How many squares?' Investigation: Patterns - when you square n you see that you add the previous **s** number to get the **s** number The formula is s = n(n+1)(2n+1)n 1 2 3 4 5 6

Patterns and sequences KS1: https://nrich.maths.org/8933 Patterns and sequences KS2: https://nrich.maths.org/8941

Escher tessellations: https://www.bbc.co.uk/bitesize/topics/zgsfr82/resources/1 Maths patterns in nature: https://www.fi.edu/math-patterns-nature

Humanities

Science

News about fingerprints on Ancient Egyptian Coffin: https://www.bbc.co.uk/newsround/

Fingerprint Quiz: http://news.bbc.co.uk/cbbcnews/hi/newsid 3140000/newsid 3148500

Operation Ouch fingerprint experiment: https://www.bbc.co.uk/iplayer/episode/m000k4

The rainbow milk experiment: https://fun-science.org.uk/the-rainbow-milk-experiment/

and stripes: https://www.bbc.co.uk/bitesize/clips/zpn6n39#:~:text=Ask%20the%20childr

Fingerprint Experiment: https://www.youtube.com/watch?v=cZKGpg fttw

How to make a Roman mosaic: http://downloads.bbc.co.uk/history/handsonhistory/romans mos aic.pdf

nx/operation-ouch-do-try-this-at-home-8-fingerprints

St. Albans Museum - take a virtual tour of

the museum too: https://www.stalbansmuseums.org.uk/making-mosaics

Virtual tour of British museum - what patterns can you find in the different galleries? https://blog.britishmuseum.org/how-to-explore-the-british-museum-from-home/

en%20to%20design,by%20combating%20the%20potential%20dangers.

Make a friendship bracelet - weaving like Annie Albers: https://www.tate.org.uk/kids/make/cut-

paste/make-friendship-bracelet

Make a placemat https://www.activityvillage.co.uk/weaving

Mayan women weaving; https://mayaarchaeologist.co.uk/2014/01/10/maya-weaving-2/

Various projects involving pattern: https://www.vam.ac.uk/info/make-and-do Pattern lessons: https://twotempleplace.org/wp-content/uploads/2017/12/Art-Design-Unit-3B-

Investigating-Pattern-WM.pdf

Islamic art: https://vanda-production-assets.s3.amazonaws.com/2016/09/20/09/46/37/e215e890-

1f5b-44a0-a2ae-4343dfd2af7a/IAD Maths.pdf

https://www.vam.ac.uk/info/teachers-resources-for-primary-schools

Creative Arts

William Morris Museum – activities at home: https://www.wmgallerv.org.uk/home Hackney Museum African Fabrics:

https://hackney-museum.hackney.gov.uk/resources-for-teachers/

Carnival masks: https://www.natgeokids.com/uk/primary-resource/carnival-masks-primary-resource/

Virtual tours of artworks https://artsandculture.google.com/category/art-movement Virtual tour of the Met: https://www.metmuseum.org/art/online-features/metkids/ Yayoi Kusama: https://www.tate.org.uk/kids/explore/who-is/who-vayoi-kusama Music: https://www.bbc.co.uk/teach/ten-pieces/ten-pieces-at-home/ziv3382 using

repeated patterns such as Ostinato and Riffs to perform Mambo (West Side Story) using kitchen items. Also week 6 Create your own 3D sculpture asks you to spot patterns.



Learn about some of the greatest places in Spain and the Moorish architecture that has geometric patterns:

Magnificent Mezquita in Cordoba: https://www.voutube.com/watch?v=7YvNMDv_h3g

Granada, Spain: The Exquisite Alhambra https://www.voutube.com/watch?v=iEseJViidv8

Answers to Patterns questions:

1. A - pieces of fabric sewn onto material to form a pattem . 2. Scotland.

3. 32 4. Paisley