

# Year 3 Knowledge Organisers



#### **Useful Information**

- Home Learning will be sent home every Friday on Google Classroom and should be completed by the following
  Thursday and handed in to the class teacher (You will find your child's login information in the front of the yellow
  reading record/diary).
- Spellings Spellings will be shared on Google Classroom and with the children each week. There will be a spelling test every Friday. Please support your child by practising their spellings with them.
- Children will continue to wear their PE kits to school on PE/Enrichment days (if in Mr Hambleton's group see below).
- There will be plenty of other occasions for sport throughout the week and as such a spare pair of trainers must be left in school at all times. These may need replacing as children outgrow them.
- Wellies are also to be in school at all times so that children have access to the full curriculum.
- Your child's enrichment group for each term will be communicated to them and to parents/carers via google classroom.

Please note, on your child's Enrichment day they will need:-

- •Cookery a plastic food container to bring their food home.
- •Mr Hambleton to come into school wearing their PE kits.
- Earth Adventures A spare pair of jogging bottoms/trousers in case they get wet.

Monday	Tuesday	Wednesday	Thursday	Friday
	Mr Hambleton's group to be in PE kit  Mrs Terry's cooking group to bring a pot to transfer scrumptious make home!		PE (Remember to come in your PE kit for the day!)  Link Learning from the previous week due in Enrichment	Spelling Test  New Link Learning provided on Google Classroom and sent home

# Dance Around the World

Essential Vocabulary				
Actions	The fact or process of doing something, typically to achieve an aim			
Movements	An act of moving			
Canon	Individuals and groups perform the same movement/phrase beginning at different times			
Direction	A course along which someone or something moves			
Agility	Ability to move quickly and easily			
Levels	Where the body moves in space relative to the ground			
Motif	A dominant or recurring idea in an artistic work			

#### Links to Prior Learning

- Contributing key words to a mind map in Reception.
- Travel safely and creatively in Reception and Year 2
- Perform a simple dance sequence in Year 2.



#### Key Knowledge

- How to contribute key words to a theme related mind map
- How to translate words/ideas into actions and combine
- How to translate theme related actions into travelling movements
- How to translate images into actions to communicate meaning
- How to listen to other's and share my own ideas.
- How to translate words from a poem into movements
- How to use canon, formation changes, direction and level to improve our ideas

#### Key Skills

- Develop a motif demonstrating some agility, balance, coordination and precision
- Creatively Change static actions into travelling movements
- Show different levels and pathways when I travel
- · Communicate effectively with a partner
- · Communicate effectively within a group
- Improve our ideas
- Evaluate the work of other's using accurate technical language



#### Key Questions

- What does your motif look like?
- What level are you working on?
- What did you like about that dance?
- What dances from around the world do you know?
- How could you travel differently?
- What were you proud of for your dance?





Essential Vocabulary				
Palaeolithic	The Palaeolithic Age is the name we give to the period which extends from the earliest known use of stone tools.			
Mesolithic	The Mesolithic period is known as the middle stone age. Humans were hunter-gatherers and had to catch or find everything they ate.			
Neolithic	The term Neolithic or New Stone Age is used to describe the time when people started farming.			
Forts	A place that's made strong and secure enough to be defended during a war			
Tribal	A tribe is a group of people who live and work together. A tribe has a common culture, dialect and religion.			
Settlement	Places where people live and sometimes work.			

#### Key Knowledge

- The Stone Age was a very long period of time when early humans made tools and weapons from stone.
- During the Bronze Age, people developed the technology to make bronze. This was used to make bronze tools, containers and jewellery.
- During the Iron Age, technology developed further across many aspects of life. People began to make tools and weapons from iron
- Stonehenge is a historic site and monument that was started in the New Stone Age.
- Archaeologists have been able to work out lots about what life was like in the Stone Age, Bronze Age and Iron Age using evidence from artefacts.

#### Key Questions

- What is the periodisation of history?
- How did the changes across the Palaeolithic impact peoples lives?
- How did the changes across the Mesolithic impact peoples lives?
- How did the changes across the Neolithic impact peoples lives?
- What makes Star Carr significant?
- Which period of the Stone Age would you rather live in and why?
- How much progress has been made from the Stone Age to the Bronze Age?
- How much progress has been made from the Iron Age different to the Bronze Age and the Stone Age?

#### Links to Prior Learning

• Children will continue to develop their knowledge and understanding of the Chronology of British History.

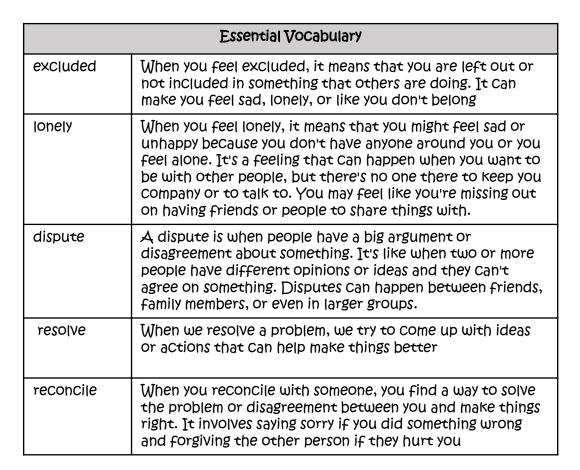






# PSHE/RSE Knowledge Organiser Year 3 Autumn 1

# How can we be a Good Friend?



#### Key Knowledge

- how friendships support wellbeing and the importance of seeking support if feeling lonely or excluded
- how to recognise if others are feeling lonely and excluded and strategies to include them
- how to build good friendships, including identifying qualities that contribute to positive friendships
- that friendships sometimes have difficulties, and how to manage when there is a problem or an argument between friends, resolve disputes and reconcile differences
- how to recognise if a friendship is making them unhappy, feel
- uncomfortable or unsafe and how to ask for support

#### Key Questions

Lime Tree

**Primary Academy** 

What's it like to feel lonely?
How do I know if someone else is lonely?
What is a positive friendship?
What do I do if I argue with a friend?
What do I do if a friendship makes me feel uncomfortable?

#### RSE No Outsiders

The children will discuss diversity, difference and what how it might feel to be excluded or left out.



#### Links to Prior Learning

- What makes a good friend? (Year 2)
- Who is special to us? (Reception)
- How are we the same/different? (Year 1)





Essential Vocabulary



# Year 3- Painting, Steve Mbatia

- Steve is inspired by what he sees around himespecially by the wildlife.
- He changes his media style. From collages to watercolors, Charcoal, oils and sculptures.
- For his animal paintings, he gets inspiration from watching the annual wildlife migration at the Maasai Mara in the Ngorongoro and Amboseli areas.

#### Key Knowledge

- Steve Mbatia was born in 1963, in Kenya.

#### Key Questions

- Who is Steve Mbatia?
- What has inspired him to paint?
- How do you make the colour green?
- How do different colours make you feel?
- What is collaging?





#### Links to Prior Learning

- Year 1- painting cubism
- Year 2 painting portraits

# Textiles - Cross stitch and appliqué

Essential Vocabulary				
Appliqué	A form of textiles work where small pieces of cloth are sewn or stuck onto a larger piece			
Embellish	Add decorative details or features to something. E.g. buttons, sequins.			
Pinking	To use pinking shears to Cut a zig-zag or scalloped decorative edge.			
Biodegradeable	Something that Can be decomposed to avoid pollution.			
thread	A long, thin strand of Cotton used to sew.			
template	A stencil used to make many copies of a shape or help cut accurately			
Cross-stitch	A two-stitch style of sewing that forms a cross pattern.			

#### Links to Prior Learning

- In year 1 we made pouches.
- We learnt that sewing is a method of joining 2 fabrics together.
- · How to do a running stitch with a needle
- How to tie a knot after our stitch was finished

#### Key Knowledge

- To know that appliqué is a way of mending or decorating a textile by applying smaller pieces of fabric
- To understand that a product's function relies on material choices
- To identify an explain some materials and explain their aesthetic and/or functional properties

#### Key Skills

- Designing and making a template for an Egyptian collar and applying individual design criteria.
- Following their design Criteria to Create an Egyptian Collar.
- Selecting and cutting fabrics with ease using fabric scissors.
- Threading needles with greater independence.
- Tying knots with greater independence.
- Sewing cross stitch to decorate or join fabric.
- Decorating fabric using appliqué, beads (or other embellishments), ribbon and pinking scissors.
- · Evaluating an end product.



#### Key Questions

Why do we use templates when designing a product?

What is pinking?

What materials or objects can be used to embellish your product?

What stitch is best for appliqué?

Which stitch would we use to apply a button to a piece of fabric?

Why is it important that we have a design Criteria?

What do you use to sew?







Appliqué



Pinking



Embellish



Template

# Place Value - Number

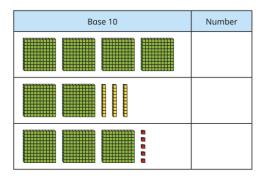
Essential Vocabulary				
Place value	The numerical value that a digit has			
Greater than	Where one is more than the other			
Less than	Where one is less than the other			
Order	Putting in the correct place following a rule			
Compare	To view something in relation to another			
Exchange	A ten in one place can be exchanged for ones in the next place to the left. (E.g 10 hundreds could be exchanged 1 thousand)			
Estimate	To roughly calculate or judge the Value, number or quantity of.			

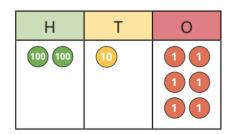
#### Links to Prior Learning

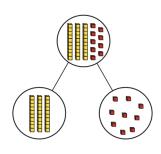
- Representing numbers in different ways in EYFS and KS1
- Read and write numbers to 100 in Year 2
- Partition numbers in Year 2
- Compare and order numbers to 100 in Year 2

#### Our Small Steps of Learning

Step 1	Represent numbers to 100
Step 2	Partition numbers to 100
Step 3	Number line to 100
Step 4	Hundreds
Step 5	Represent numbers to 1,000
Step 6	Partition numbers to 1,000
Step 7	Flexible partitioning of numbers to 1,000
Step 8	Hundreds, tens and ones
Step 9	Find 1, 10 or 100 more or less
Step 10	Number line to 1,000
Step 11	Estimate on a number line to 1,000
Step 12	Compare numbers to 1,000
Step 13	Order numbers to 1,000
Step 14	Count in 50s







Year 3 - Autumn 1 - Maths



#### Key Questions

- How else can you show this number?
- How can you use base 10 or draw a picture to help you partition?
- How many intervals are there? What is each interval worth?
- What is the number line counting up in? How do you know?
- When counting in 100s, what comes after 500? How do you know?
- How many tens are there in 100?
- Why do you need to make an exchange when you have 12 tens?
- How many hundreds/tens/ones are there in 465?
- What is the value of the digit 6 in 465?
- How Can you use plain counters to represent a number in a place Value Chart?
- When finding 1/10/100 more/less, which place value columns does this effect?
- Do you start comparing hundreds, tens or ones first? Why?
- When Comparing two numbers, if the first digits are equal in Value, what do you look at next?
- What is the connection between the 5 times-table and the 50 times-table?

#### Key Knowledge

- Identify, represent and estimate numbers using different representations
- Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones)
- Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
- Read and write numbers up to 1,000 in numerals and words
- Compare and order numbers up to 1,000

# Addition and Subtraction - Number

Essential Vocabulary				
Total	Including everything added together			
Addition	The action or process of adding something to something else			
Subtraction	To take away from something else to decrease the size, number or amount			
Mental method	Calculating problems without writing anything down			
Formal method	A systematic method that is written down			
Column method	A mathematical method of calculation where the numbers to be added or subtracted are set out above one another in columns			
Exchange	A ten in one place can be exchanged for ones in the next place to the left. (E.g 10 hundreds could be exchanged 1 thousand)			

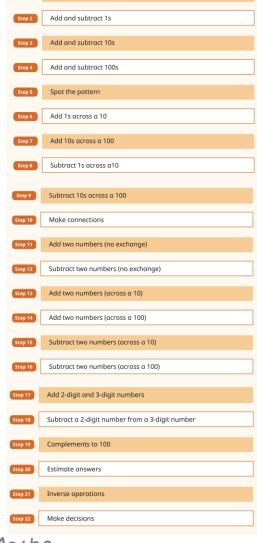
#### Links to Prior Learning

- Number bonds in Key Stage 1 and EYFS.
- · Adding and subtracting mentally in Year 2

Tens	Ones				1									
	88		+-		-	Hundreds	Tens	Ones						
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			67	<sup>1</sup> 2			00	000			3	6	7	
		_	- 4	5		<b>®</b>	0000	0000	1	+	1	6	4	
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2	7					100			, -					
		- 30	_	20	_	50								

#### Our Small Steps of Learning

Apply number bonds within 10





#### Key Questions

- Which is the whole and which are the parts?
- If you know 7 ones minus 3 ones is equal to 4 ones, then what is 7 tens minus 3 tens?
- If you know 3 + 4 = 7, what is 300 + 400?
- What is the inverse of adding/subtracting?
- What is the next multiple of 100 after 425?
- How can you partition 289?
- Does it matter which column you subtract from first?
- Does it matter which number you write at the top when using the column method for subtraction?
- How can you show that you have exchanged 10 ones in your written calculation?
- How can you write this calculation using the formal written method?
- If you cannot exchange from the tens, what should you do?
- Why do we use estimates?

#### Key Knowledge

- Add and subtract numbers mentally
- Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
- Estimate the answer to a Calculation and use inverse operations to check answers
- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction

Year 3 - Autumn 1 & 2 - Maths

# Science Knowledge Organiser Year 3 Autumn 1

# PLANTS

	Essential Vocabulary					
flower	Flowers play an important role in the production of plants					
nutrients	Essential foods for a plants health and life					
pollination	When the male pollen lands on the female stigma pollination occurs.					
seed dispersal	How a plant spreads its seeds to grow somewhere new					
Reproduction	The creation of new plants by one or more parent plants					

#### Key Knowledge

Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.

Understand the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.

Know how water is transported within plants. Understand the part that flowers play in the life cycle of flowering plants, including pollination, seed formation

#### Links to Prior Learning

Observe and describe how seeds and bulbs grow into mature plants. (Y2 - Plants)
Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. (Y2 - Plants)

#### Key Questions

- What are the parts of a plant?
- What do plants need to grow healthily?
- What is the life cycle of a plant?
- What is seed dispersal?
- What is pollination?



#### Enquiry Skills - Science Disciplines

Asking relevant questions and using different types of scientific enquiries to answer them.

Setting up simple practical enquiries,

comparative and fair tests.

Making systematic and careful

observations and, where appropriate,

taking accurate measurements using standard units.

Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.

Recording findings using simple scientific language, drawings,

labelled diagrams, keys, bar charts, and tables Reporting on findings from enquiries, including oral and

written explanations, displays or presentations of results and Conclusions.

Using results to draw simple conclusions, make predictions for

new Values, suggest improvements and raise further questions.

Identifying differences, similarities or Changes related to simple

scientific ideas and processes.

Using straightforward scientific evidence to answer questions to support their findings.

#### **Water Transport in Plants**

#### The Music Year Theme: Classical Music (Autumn 1) and Happy Holidays! (Autumn 2)



	Essential Vocabulary
Pulse	The regular heartbeat of the music; its
	steady beat
Rhythm	Long and short sounds or patterns that
	happen over the pulse.
Pitch	The position of the note.
Call and	Two separate musical phrases, the second
response	one responds to the first.
Tempo	The speed of music; fast, slow or in between.
Dynamics	How loud or quiet the music is

# Key Questions Listening

- What is the mood/feeling of pieces of the piece of music?
- Who is the composer/writer?
- · Which genre is the piece of music?

#### Singing

- What are the key principles to warming up our voices?
- Is your voice ready for singing? Why/why not?

#### Perform (Vocal)

- How can you engage with the audience to enhance the quality of your performance?
- What were your reflections on the live/recorded performance?

# Listening suggestions for this term Canon in D by Pachelbel Swan Lake by Tchaikovsky A Holly Jolly Christmas by Burl Ives

#### Links to Prior Learning

In Year 2 (Summer term), children learned to structure their musical ideas such as using echo and simple question/answer phrases in song. Children learned to create music to respond to a non-musical stimulus.

#### Key Knowledge

- Recognising the varying dynamics in pieces of music and demonstrating them by responding to a leader's directions and visual symbols during singing.
- Knowledge of various cultures and genres of music such as Baroque, Romantic and Disco.

#### Music groups in our local area

- Trafford Music Service (Choirs and instrument Jessons)
- Sale Youth Choir
- One Education Music Centre
- Greater Manchester Music Hub

### Fiction - Letter writing

Essential Vocabulary				
5-part story	A story that includes five distinct parts: opening, build up, problem, resolution, ending.			
non- Chronological report	A non-fiction text about a Certain topic. They are full of facts and information and are written in the present tense. These texts can be ready in any order, rather than from 'beginning to end.'			
direct speech	Direct speech is where the exact words that are spoken are written in inverted commas. For example: "Oh, there you are!" he exclaimed.			
riddle poem	A poem that gives clues about a subject to encourage the reader to make a guess.			
diary entry	Usually written by a Character to their diary in an informal letter format, explaining and giving opinions about something that has happened to them.			
preposition	A word that demonstrates location, time or direction. For example: on, in, at, beside, underneath, to			
inference	Something we work out using clues and evidence in a text, rather than being directly told by the author.			
predict	Explaining what we think might happen, based on what has happened so far or on clues given on the cover of a book.			

#### Key Knowledge

Our writing will be inspired by Michael Foreman's story 'Seal Surfers'. We will write 5-part stories, produce non-chronological reports about coastal wildlife and send letters in Character from the boy in the story to his grandfather.

Additionally, we will write and perform riddle poems based on Robert Frost's poem 'Seal,' and Create diary entries in Character.

Informal letters are usually written directly to one reader and often include questions as well as information about something that has happened to the person writing the letter. They follow a special structure, starting with Dear... and ending with Love from...







#### Links to Prior Learning

- Science 'Animals Including Humans' (Year 1); 'Living Things and their Habitats' (Year 2)
- Geography Where we Live' (Year 1)
- English letter writing (Year 2)



#### Key Skills

- Build a varied and rich vocabulary
- Use prepositions to express time, place and cause
- Group related ideas into paragraphs
- Use inverted commas to punctuate direct speech
- Create settings, Characters and plot
- Use an increasing range of sentence structures

#### Key Questions

- Why do people send letters?
- What would it be like to live by the sea?
- How would it feel to go surfing?
- What does 'symbiotic' mean?
- How important are human relationships?
- How important are relationships with animals?



Year 3 - Autumn 1 - English

# Connecting computers

Essential Vocabulary				
Digital device	device A piece of physical equipment that uses digital data.			
Input	Energy or information enters a system.			
Output	Power or energy leaves a system.			
Process	A series of actions or steps in order to reach a desired outcome.			
Program	A series of coded software instructions to control the operation of a computer.			
Server	A computer program or device that provides a service.			

#### Links to Prior Learning

- This unit progresses the learners' knowledge and understanding of technology by focusing on digital and nondigital devices.
- In Year 2 you explored information technology.
- · You learned how to use information technology safely.

#### Key Knowledge

- Describe what an input is.
- Explain that a process acts on the inputs.
- Explain that an output is produced by the process.
- Explain how computer systems can change the way we work.
- Identify how Changing the process Can affect the output.
- Recognise that a digital device is made up of several parts.
- Identify how devices networks are connected with one another.
- Explain how information is passed through multiple connections.

#### Key Skills

- Identify input and output devices.
- Explain that a computer system accepts an input and processes it to produce an output.
- Explain how a computer network can be used to share information.
- Identify the benefits of computer networks.



#### Key Questions

- What is an input?
- Can you explain how an output is produced?
- How can computer systems change the way we work?
- Which parts make up a digital device?
- How is information passed through?
- What are some benefits of computer networks?



# What do different people believe about God?

Essential Vocabulary	
Faith	Strong belief in the doctrines of a religion, based on spiritual Conviction rather than proof.
Trinity	The three persons of the Christian God; Father, Son, and Holy Spirit.
Holy Spirit	The spirit of God, or the presence of God.
Pentecost	The Christian festival celebrating the descent of the Holy Spirit on the disciples of Jesus after his Ascension, held on the seventh Sunday after Easter.
Ascension	The action of rising to an important position or a higher level.
Parable	a simple story used to illustrate a moral or spiritual lesson, as told by Jesus in the Gospels.
Baptism	The Christian religious rite of sprinkling water on to a person's forehead or of immersing them in water, symbolising purification or regeneration and admission to the Christian Church

#### Links to Prior Learning

- · Who is a Christian and what do they believe? Year 1.
- Who is a Muslim and what do they believe? Year 2.
- · Who is Jewish and what do they believe? Year 2.

#### Key Knowledge

- I know that people of faith trust in their religion without the need of proof.
- Christians think of God as Trinity Father, Son and Holy Spirit. Muslims believe in the 99 Names of Allah and Hindu beliefs about the Trimurti – Brahma (Creator), Vishnu (preserver), Shiva (destroyer).
- Religions use calligraphy to represent their beliefs visually.
- Moses and the Burning Bush (Exodus 3.1–15), Jonah (book of Jonah in the Old Testament); Baptism of Jesus (Mark 1.9–11); Pentecost (Acts 2. 1–21) and Paul's conversion (Acts 9. 1–19); stories Jesus told which teach about God e.g. the parable of the Forgiving Father (Luke 15.11–32) all show God's relationship with humans.

#### · Key Skills

- Identify similarities and differences between religions and beliefs. Investigate and connect features of religion and belief.
- Identify similarities and differences in religious, spiritual and moral stories.
- Identify the impacts of people's beliefs and practices on people's lives.
- Make links between religious beliefs and practices.

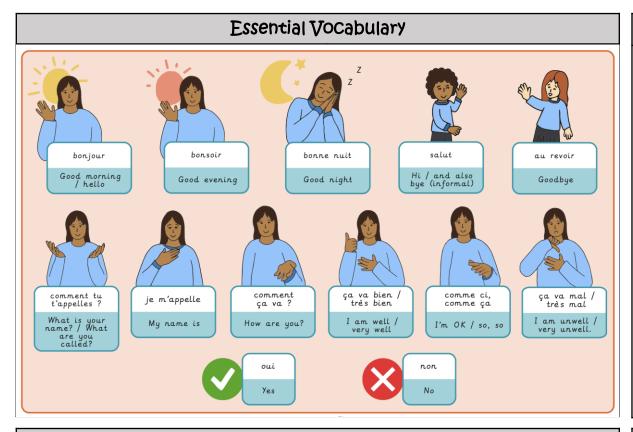


#### Key Questions

- How can we exercise trust and faith in our everyday lives?
- What do people believe about God?
- How do different religions describe the attributes of God?
- How are ideas about God are shown in stories/narratives?
- How do God's encounters with humanity Create a relationship?
- What impact does believing in God has on the lives of believers?

# French Greetings Year 3 Autumn 1





#### Key Skills

- Use an appropriate greeting.
- · Introduce myself.
- Find out someone else's name.
- Use the correct pronunciation.
- Know that different greetings are used at different times of the day.
- · Recognise greetings words written in French.
- Know when to use different greetings.
- Reflect on the differences in French culture.
- · Ask how someone is feeling.
- Say how I am feeling.
- Use my tone of voice to help make myself understood.
- Join in with a rhyme in French using appropriate actions.
- Follow simple instructions in French to make a finger puppet.

#### Key Questions

- How do you say, 'How are you?' (Comment Ça va?)
- How do you say, 'I am well, I am fine'? (Ca va bien.)
- How do you say, 'I am very well, things are going really well'? (Ça va très bien.)
- How do you say, 'I am not fine, things are not good'? ( Ca va mal.)
- How do you say, 'Things are bad'? (Ca va très mal.)
- How do you say, 'I'm ok'? (Comme ci comme ça.)

#### Key Knowledge

- Greet someone and introduce yourself in French.
- Use the correct French greeting for the time of day.
- Ask and answer a question about feelings in French.
- Perform a finger rhyme in French.