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What is a knowledge organiser?

have thought about **the most important key vocabulary, diagrams, information, and ideas that you need** to know to understand each topic and have summarised them on one A4 sheet of paper for you. The organiser easy to use and to understand. information has been organised into clear tables, diagrams or key points to make the knowledge In this booklet you will find knowledge organisers for every subject you study at Madani. Your teachers

How will Knowledge organisers help you?

each lesson. This means that you are thinking about these key ideas many times as you study the topic. you are studying, so that you can think about how these ideas are linked to what you are learning in other ideas within a topic. People remember what they have learned by thinking about it offen, and by linking key knowledge to This will make it easier to remember what you have learned and add new knowledge each lesson Your knowledge organisers include the key information and ideas for the topic

up with the activities you need to complete independently. include the key ideas from the lesson you missed. This will make it much easier to understand and catch Your knowledge organisers are also useful if you have been absent because the knowledge organiser will

How can you use your knowledge organisers?

explained below: There are many activities that you can do using your knowledge organisers. Try some of the ones

- Homework: Your teachers may assign homework linked to your knowledge organisers to help you understand the new information more clearly understand key terms and ideas from the topic. This will help you prepare for your next lesson and
- Independent Research: You could do your own research to learn more about the key ideas included in your booklet
- Creating more revision and learning tools: You can use the information on your knowledge organiser to sections for information - just like a clock) by starting with the main ideas from your knowledge organiser and adding all the specific detail you remember from your lessons to the different sections organiser and creating your mind-map or Round the Clock sheet (like the one shown below with 12 of your mind-map or Round the Clock Diagram. create mind-maps or revision clocks. You can do this by taking the key ideas from the knowledge





They are great for revision and testing your level of knowledge:

- Test yourself. Because knowledge organisers include the key information and ideas for each topic, you knowledge organiser and see if you were correct. organiser and testing yourself to see what you remember. Then uncover the information on your can use them to help you revise for tests. You can self-quiz by covering sections of the knowledge
- See how well you know the topic: Turn your knowledge organiser over and create a mind-map or write ganiser and check to see if your information is correct of if there is anything that you missed. Revise it and make sure you will remember more the next time. everything you know about the topic on a blank piece of paper. Then turn over the knowledge or-
- Create your own quizzes: Use the knowledge organiser to write your own set of questions based on the you will be able to next time. Try to answer the questions each week and see if you are able to reif you can remember the answers. Make sure you revise anything that you couldn't answer so that member more each time. information included. Once you have a set of questions, turn the knowledge organiser over and see
- Create your own flashcards. For example, you could write the key terms from your knowledge organiser on one side of the card and the definition on the other. Then use the cards to quiz yourself.
- Many of the key ideas you need to know for exams are on the mind-map. If it is included on the tested on an exam in some way. knowledge organiser your teacher thinks it is important for you to know it and you can expect it to be

It is important to remember that knowledge organisers don't include all the information that you need to know – only the main ideas. You can use them to help you remember the detail from your lessons.

How can your parents/carers use knowledge organisers to help you learn?

- Read through the organiser with someone in your family and explain the information included in the next time. know helps you to understand the key ideas more clearly and helps you remember them more easily and then answer any questions your family member might have. knowledge organiser to them. Make sure you use examples and provide as much detail as you can, Teaching someone else what you
- Ask your family to test or quizyou on the information included in the knowledge organiser. You to do this regularly and keep track of what you remember to see if you improve each time. You should try
- ₽ Sk your family to read out sections of the knowledge organiser to you, but to miss out key words or piec es of information and see if you can fill in the key terms or knowledge.
- Ask your family to test you regularly on the spellings of key words until they are perfect. Make a note the ones that you spell incorrectly to make sure that you know them next time. <u>q</u>









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MADANI BOYS SCHOOL YEAR 9 HALF TERM 3

SCIENCE





MATHS

Box Plots



Cumulative Frequency Graphs



Cumulative frequency graphs allow us to estimate the lower quartile, upper quartile and median of grouped frequency data (see the dotted lines on the graph.)

•/			
	Distance, d Km	Freq.	Cumulative Frequency
	150 < d ≤ 155	3	3
	155 < d ≤ 160	4	7
	160 <d 165<="" td="" ≤=""><td>8</td><td>15</td></d>	8	15
	165 < d ≤ 170	13	28
	170 < d ≤ 175	4	\star 32

The co-ordinates are taken from the upper limit and cumulative frequency of each interval. So the last co-ordinate is (175,32)

Mean, Median, Mode & Range

For the data points: 3, 3, 3, 7, 8, 9, 9

- The mode is the most common data point: 3
- The **median** is the middle number (Once you've lined them up from smallest to largest): 7
- There are three numbers to the left of 7 and three numbers to the right, so 7 is the median.
- To find the **mean**, you divide the total by the number of data points:

3 + 3 + 3 + 7 + 9 + 10 + 14 = 42 $42 \div 7 = 6$, so the mean is 6.

- The mean is the total shared between each data point. In the example above, it is like saying that 7 friends have a total of $\pounds 42$, so they each have about $\pounds 6$ on average. However it does not tell us how the much the amounts vary from each other. For that we need to find the range.
- The **range** is the difference between the smallest and largest data point: 9 3 = 6 so the range is 6.
- The **interquartile range** is the difference between the upper quartile and the lower quartile.
- The range and interquartile range are not averages, so they do not give us a sense of the size of the numbers. They are measures of how spread out the data is: the lower the range and the interquartile range, the more consistent the numbers are.





COMPUTING

Python	Programming	Iteration			
	nments are not equations. Assignments structions to be executed.	While True: block of statements forever			
	quotation marks around the value show of text). lucky is another variable. It is program must display nd expressions.	While Condition: block of block of statements trepeat until Vbile statement: trepeat until value value			
An algorithm is a set of precise instruction expressed in some sort of language (e.g. textual, visual). Translating the programming language is needed so a machine is able to execute the instructions. To execute a Python program, you need a Python interpreter (a program that translates and executes your Python program). A program is a set of precise instructions, expressed in a programming language.	 Logical Errors Jogical errors: when your program doesn't work the way it should. All programming languages have rules for syntax, i.e. how statements can be assembled. Programs with syntax errors cannot be translated and executed. SyntaxError: invalid syntax 	The following code sequence can be made efficient by using iteration: count = 3 print(count) count = count-1 print(count) count = count-1 print(count) count = count-1			



MADANI BOYS SCHOOL YEAR 9 HALF TERM 3

COMPUTING

~	Op	erators		Modules
+ addition - difference * multiplica / division // integer c	ation	print("Year of birth?") birth_year = int(input()) age = 2020 - birth_year print("You are", age, "years old")	Modules (or libraries) They extend what our programs can do by providing additional functions.	Selection: You will need an if/ elif blocks of code when there are more than two different paths for your program to follow.
Ŭ	er of integer di	ivision	Importing : "from the random module, the pro	ogram will need the randint function"
E.g.: 15 // 2 15 % 2 2 ** 8	remainder	f 15÷2 (value: 7) of 15÷2 (value: 1) ower of 8 (value: 256)	lucky = randint(1,20) print("Guess my number:") guess = int(input()) if guess == lucky: print("Amazing, you guessed it") else:	You will need an if or an if, else: when there is more than one possible path for your program to follow.
	• •	ressions formed using these her True or False, E.g.:	print("Sorry, it's not", guess) print("My lucky number is", lucky)	
a == 1 b != c d < 3 d <= 3 d > 10 d >= 10	Does a equ Are b and Is d less tha Is d at mos Is d greate Is d at leas	c different? an 3? t 3? r than 10?	<pre>print("Nice playing with you") class BigFile: definit(self, datadir, ndims): idfile = os.path.join(datadir, "id.txt") idfile = os.path.join(datadir, "id.txt") self.name2index = dict(zip(self.names, range(len self.featurefile = os.path.join(datadir, "featurefile self.featurefile = os.path.join(datadir, segnet) = os.path.join(datadir, segne)</pre>	<pre>sure.bin") (len(self.names). self.ndims) (e</pre>
	chcomputing.	erence org/curriculum/key-stage- -programming		for x in requested) dims, [x[0] for x in index_name_arr vecs

HONESTY | EXCELLENCE | ACCOUNTABILITY | RESPECT | TEAMWORK



ENGLISH

Lord of the Flies -

	Plot summary	Vocabulary
1	Schoolboys have crash landed on a deserted island. The reader meets Ralph and Piggy. Piggy has asthma. They find a conch and use it to summon any other survivors including twins SamnEric, Jack and Simon.	efflorescence, enmity, decorous, chorister, bastion, hiatus
2	The boys focus on short term pleasure and fun. Ralph suggests building a fire to be rescued. Jack just wants to hunt. A boy with a birth mark tells of 'the beast.' He goes missing after the fire and the boys are ashamed.	Ebullience, recrimination, tumult, tirade
3	Ralph wants to build shelters but only Simon helps whilst the others play and Jack hunts. The fire has been allowed to go out. Simon slips away to meditate	oppressive, inscrutable, vicissitudes, declivities, tacit
4	Island life gets a rhythm. Mornings are pleasant because it is cool but evening is not because people worry about the beast. A boat goes past but there is no fire to attract it. Piggy is laughed at for sundials. Jack pants his face and hunts and kills a pig chanting "Kill the Pig. Cut her throat. Spill her blood." Ralph walks away	blatant, taboo, malevolently, sinewy
5	Ralph calls a meeting to get people to follow the rules, but he and Jack are more apart than ever. There is talk of the beast, a little un suggesting it comes from the ocean at night. Jack just wants to hunt and won't listen to the rules of the conch. Ralph wishes for adults	ludicrous, ineffectual, jeer, inarticulate
6	A dead parachutist floats on to the Island. No one sees because the fire is out. When they awake, SamnEric light the fire and see him but they think it is a beast. Jack finds a rock and some boulders.	leviathan, clamour, mutinously
7	Jack and Ralph continue to clash as they search for the beast. Ralph kills a boar and is flushed with excitement. Robert is almost killed in the reenactment. Later they head up the mountain and see the beast and are terrified.	crestfallen, impervious, enterprise
8	Jack declares himself chief of his own group. Simon meditates alone and leans what the beast is. Piggy tries to cheer Ralph up with talk of a new fire. The savages dance around as they kill a sow with Roger being very brutal.	glowered, rebuke, demure, fervour
9	A storm comes and they have no shelter. Simon emerges from the forest and is killed by the other boys who think he is the beast. Ralph acts like a king.	corpulent, sauntered
10	Jack's gang have moved to castle rock. Ralph, Piggy and SamnEric remain but cant keep the fire going alone. Jack steals Piggy's glasses whilst the others protect the conch.	compelled
11	The boys go to castle rock to confront Jack. Piggy is killed by a boulder pushed by Roger. Jack attempts to kill Ralph with a spear. He flees. Jack's group torture SamnEric to join them.	luminous, myopia, snivelling, quavered, talisman
12	SamnEric are tortured into revealing Ralph's hiding place. Jack vows to burn down the forest to find him. The smoke attracts a boat. The officer finds the boys and asks if they are playing at war. All of the boys cry whilst the officer looks back at his ship.	acrid, cordoned, elephantine, epaulettes

Themes		
HUMAN NATURE: the book is an allegory for human nature and society.		
CIVILIZATION and SAVAGERY: the boys descend into brutality as they become further removed from civilization.		
LOSS OF INNOCENCE: usually a symbol of naivete and innocence, the boys become increasingly brutal.		
THE WEAK & THE STRONG: The big 'uns prey on the little 'uns as the island becomes survival of the fittest.		
SPIRITUALITY & RELIGION: Simon is a christ like figure who sacrifices himself so the boys can know the truth.		



ENGLISH

Characters	Context	Symbols	Terms
Ralph: the largest and most physically powerful. Wants to plan and follow	Golding's experiences in WW2 showed	The conch	Scar
rules, but even he is sometimes seduced by savagery. Symbolises: law, government and civil society.	him the evils of human nature.		Conch
Piggy: the smartest boy but has asthma and is fat so bullied. Has a		The lord of the flies	Allegory
tendency to lecture and is ridiculed. Symbolises: science and rationality	During the cold war fears of nuclear	Piggy's glasses	Irony
Jack: Leader of the hunters. Loves to hunt and kill gets angry when he	annihilation gripped society.	riggy's glasses	Foreshadowing
doesn't get his way. Believes a leader should be obeyed. Symbolises: dominance and power		The island	Metaphor
Simon: Dreamy, dark haired boy prone to fits. He recognises that the beast	British public schools emphasized civility		Symbolism
is within them. He is unafraid and meditates. Symbolises: Religion and spirituality.	and 'stiff upper lip'.	Fire and adults	Garden of eden
Roger: Quiet and intense at first then becomes more evil. He tortures			Temptation
SamnEric, kills Piggy and likes to inflict pain. Symbolises: Sadism	Totalitarian governments such as Nazi Germany and Stalinist Russia controlled	The 'beast'	Authority
Little 'uns: Not easy to distinguish. They are fearful, terrified of the beast and	people through fear	Fire	Civilized
just want to play. Symbolises: every day people who are manipulated by leaders			Savage

Important Quotations

Within the diamond haze of the beach something dark was fumbling along...Then the creature stepped from the mirage on to clear sand, and they saw that the darkness was not all shadow but mostly clothing

You got your small fire all right." [...] the boys were falling still and silent, feeling the beginnings of awe at the power set free below them

Roger gathered a handful of stones and began to throw them. Yet there was a space round Henry, perhaps six yards in diameter, into which he dare not throw. Here, invisible yet strong, was the taboo of the old life. Round the squatting child was the protection of parents and school and policemen and the law

Fear can't hurt you any more than a dream. There aren't any beasts to be afraid of on this island . . . Serve you right if something did get you, you useless lot of crybabies!".

"There isn't anyone to help you. Only me. And I'm the Beast.... Fancy thinking the Beast was something you could hunt and kill.... You knew, didn't you? I'm part of you? Close, close, close, close, l'm the reason why it's no go? Why things are the way they are?"

"I just take the conch to say this. I can't see no more and I got to get my glasses back. Awful things has been done on this island. I voted for you for chief. He's the only one who ever got anything done. So now you speak, Ralph, and tell us what. Or elsey.

The rock struck Piggy a glancing blow from chin to knee; the conch exploded into a thousand white fragments and ceased to exist. Piggy, saying nothing, with no time for even a grunt, traveled through the air sideways from the rock, turning over as he went [...]. Piggy fell forty feet and landed on his back across the square red rock in the sea. His head opened and stuff came out and turned red. Piggy's arms and legs twitched a bit, like a pig's after it has been killed.

Ralph wept for the end of innocence, the darkness of man's heart, and the fall through the air of a true, wise friend called Piggy



FRENCH

Learning Objectives

By the end of the term I can communicate (talk, ask and answer) about how:

- To organise a party
- To suggest activities and make excuses
- To describe an event, you have been to

Grammar Objectives

I will be able to understand and apply rules about:

- Near future
- Revision perfect tense with être and avoir
- On pourrait + infinitive

Organising	a Party
------------	---------

Pour organiser la fête, on va	To organise the party, we will
envoyer les invitations.	send the invitations.
acheter la nourriture et les boissons.	buy the food and drink.
télécharger de la musique.	download the music.
décorer la salle.	decorate the room.
préparer le buffet.	prepare the buffet.
Après, on va nettoyer.	Afterwards, we will clean up
C'est une fête pour célébrer	It's a party to celebrate
C'est samedi soir.	It's on Saturday evening.
C'est à partir de 18 heures.	It starts at 6 p.m.
Ça va être chez moi/au collège.	It will be at my house/at school.
Tu peux apporter	You can bring
Je vais passer te chercher à 17 heures.	I'll call round for you at 5 p.m.

Suggesting Activities, Making Excuses

On pourrait?	We could?
faire les magasins	go shopping
faire un pique-nique	go on a picnic
aller à un concert/une fête	go to a concert/a party
aller au bowling/au	go bowling/to the
cinéma	cinema
manger au McDo	eat at McDonald's
regarder un DVD	watch a DVD
Bof, je n'aime pas trop.	I'm not keen/I don't fancy it.
Je ne sais pas.	I don't know.
Ah non, c'est nul/je déteste.	No, it's rubbish/I hate it.
Je ne peux/veux pas parce	I can't/don't want to
que/qu'	because
c'est trop cher.	it's too expensive.
je n'ai pas beaucoup d'argent.	I haven't got much money.
j'ai horreur de danser/du fast-food.	I hate dancing/fast food.
je suis fatigué(e).	I'm tired.
j'y suis allé(e) hier.	I went there yesterday.
il y a trop de monde.	it's too crowded.

Festivals & Special Events

J'y suis resté(e)/On y est resté(e)s tout le week-end.	I/We stayed there all weekend.
J'ai/On a dansé/chanté/ mangé	I/We danced/sang/ate
Je suis rentré(e)	I came home/returned
C'était fantastique/ incroyable.	It was fantastic/incredible.
Il y avait un grand feu d'artifice.	There was a big fireworks display.
Je vais y retourner l'année prochaine.	I'll go again next year.

Festivals & Special events

Did you go to a festival this summer?
Where did you go?
I went to
I went there with
It was last year/last weekend.
I left/arrived





Grammaire WB p.43

• Use the **present tense** to give a general description and to say what usually

 Use the two past tenses to talk about a particular event in the past: use the

imperfect to describe it (there was ...,

it was ...) and the perfect to say what

Imperfect

C'était

Il y avait

Past

Perfect

Ona

dansé

On est allé(e)s

happened and what you did.

Present and past tenses

happens.

Present

danse

va

C'est

Ilya

On

When describing an event:

FRENCH

Key Grammar

Grammaire WB p.42

On pourrait + infinitive

On **pourrait aller au** cinéma? – We **could go** to the cinema?

Grammaire WB p.33

The near future

To say what you are going to do, use *aller* + **infinitive**:

je vais	organiser
tu vas	inviter
il/elle/on va	acheter

Je vais organiser une fête. – I am going to organise a party.

Negative: Je ne vais pas faire ...

- I am not going to do ...

Grammaire ^{p.168–170} WB p.37–38

The perfect tense with être

Some verbs use *être* instead of *avoir* in the perfect tense:

aller (<i>to go</i>) → allé	venir (<i>to come</i>) → venu
rester (<i>to stay</i>) → resté	partir (<i>to leave</i>) → parti
arriver (to arrive) → arrivé	rentrer (<i>to return</i>) → rentré

With <i>être</i> verbs,
the past participle
agrees with the
subject:

	er (to return) \rightarrow rentre
Masculine	Feminine
je suis allé	je suis allé e
tu es allé	tu es allée
il est allé	elle est allée
on est allés	on est allées

		Model Text	
1	Tu vas organiser une fête de fin d'année ?	Pour organiser la fête de fin d'année je vais envoyer des invitations á mes copains et on va décorer la classe. Je vais aussi télécharger de la musique car j'adore danser !	To organise the end of year party, I am going to send the invitations to my friends and we are going to decorate the class. I am also going to download music because I love dancing.
	Tu veux sortir demain ?	Oui on pourrait faire un pique- nique au parc et faire du shopping au centre-ville. Le soir on pourrait aller manger au McDo et faire du bowling	Yes, we could do a picnic et go shopping in the city centre. In the evening we could go eat at McDonalds and go bowling.
	Tu es allé(é)á un festival récemment ?	L'année dernière je suis allé à un festival de musique pour deux jours.	Last year I went to a festival of music for 2 days.
	Avec qui es-tu allé(e) ?	J'y suis allé avec mes copains. J'y suis allé en train car le festival était á Paris.	I went there by train because the festival was in Paris.
	Qu'est-ce que tu as fait ?	C'était super car j'ai chanté et dansé c'était top. En plus j'ai vu ma bande préférée, c'était merveilleux. J'ai aussi rencontré des nouveaux copains ; on va rester en contact par Facebook. A la fin du concert il y avait un grand feu d'artifice. Je suis rentré à la maison a deux heures du matin	It was great because I danced and sang. Moreover, I saw my favourite band it was marvellous. I also met new people. We are going to stay in contact on Facebook. At the end of the concert there was a big fireworks display
	Tu vas-y retourné l'année	Oui je vais y retourner l'année prochaine	Yes I'm going to return next year.

Madel Text

HONESTY | EXCELLENCE | ACCOUNTABILITY | RESPECT | TEAMWORK

prochaine ?



PHYSICAL EDUCATION

Basketball - Overview

Basketball brings together a combination of speed, skill, agility, balance, and tactics. The game is contested by two teams of five players and involves one team invading another team's territory, with the aim of shooting a basketball successfully through their opponent's hoop. Basketball is different to most invasion games as, in some versions in North America, it utilises a shot clock to force teams to shoot within 24 seconds of gaining possession. This makes basketball action-packed and very enjoyable for spectators.

The game today has a number of different formats and can be played competitively and recreationally in a range of different disciplines.





Basketball - Skills required

Hands

- passing chest and bounce pass
- shooting lay-up, set shot
- dribbling either hand, changes of direction
- rebounding
- footwork pivot

Head

- Use of skills in a game situation
- Half court defence
- Out of bounds
- Decision making



ARABIC

Learning Objectives

By the end of the term, I will be able to talk about :

 Various celebrations and religious festivals as well as the other aspects in relation to them including food and dress, sporting events and their importance, campaigns

Grammar Objectives

I will be able to understand and apply rules of:

- Past, present and future tenses
- Preposition
- Days, months and time

Future	Present	Past	Pronoun
سَــ/ سَوْفَ + Present	یــ/ تــ		
سَيَفْعَلُ/ سَوْفَ يَفْعَلُ	يَفْعَلُ	فَعَلَ	هَوَ
سَتَفْعَلُ/ سَوْفَ تَفْعَلُ	تَفْعَلُ	فَعَلتْ	هِيَ
سَيفَعَلانِ/ سَوْفَ يفَعَلانِ	يفعَلانِ	فُعَلَا	هُمَا
سَتَفْعَلانِ/ سَوْفَ تفْعَلانِ	تفعَلانِ	فعكتا	هُمَا
سَيَقْعَلُون/ سَوْفَ يَقْعَلُون	يَفْعَلُون	فَعَلُوْا	ۿؙم۠
يَفْعَلْنَ سَيَفْعَلْنَ/ سَوْفَ	يَفْعَلْنَ	فَعَنْنَ	ۿڹٞ

Past, present and future tenses 3rd person:

Past, present and future tenses 1st person:

Present	Past	Pronoun
أَفْعَلُ	فَعَلْتُ	أنا
نَفْعَلُ	فَعَلْنَا	نَحْنُ
	4.55	41.95 159.5

Past, present and future tenses 2nd person:

Future	Present 🛋	Past	Pronoun
سَـ/ سَوْفَ + present	تَفْعَلُ	فَعَلْتَ	أنْتَ
سَـ/ سَوْفَ + present	تَفْعَلِيْنَ	فمعلت	أنْتِ
سَـ/ سَوْفَ + present	تَفَعَلانِ	فمعكتما	أَنْتُمَا (M&F)
سَد/ سَوْفَ + present	تَفْعَلُونَ	فَعَلْتُمْ	أنْتُمْ
سَد/ سَوْفَ + present	تَفْعَلْنَ	فْعَلْتُنَ	أَنْتُنَّ

Days of the week

Questions

- Which day is always
- a holiday in Arabic
- countries?
 What Muslims do in Friday? How many Eids do Muslims celebrate?



Key Vocabulary

English	Arabic	English	Arabic
H distributes	يُوزِعُ (V)	People	النَّاسُ (N)
Poor	فقِير / فُقَرَاء	Child/Children	الطِّفْلُ/الأَطْفَالُ (N)
person/s	(N)		
Visit	یَژُورُ (۷)	Happiness	السَّعَادَة (N)
He receives	يَتَلَقَّى (V)	Beginning	بِدَايَةٌ (N)
She	تُزَيَّنُ (٧)	He prepares	يُعدِّ/ يُجَهِزُ (V)
beautifies			
Meat	الْلُحْم (N)	Type/s	نوع/أَنْوَاع (N)
He rejoices	يَفْرَحُ (٧)	Different	مُخْتَلِفَة (N)
food	طَعَامٌ/	month	شَمَهْر/ أَشْهُر/ شُهُور
	الأَطْعِمَةِ (N)		
			ه بید ه .
Celebration/	احْتِفَالٌ/	family/ies	الْعَائِلَةُ/ الْعَائِلَات (N)
S	احْتِفَالات (N)		
11	0.0 1 "	11	40 415
He gives	يُعْطِي (V)	He eats	يَتَثَاوَلُ (V) الْأُنُوْ رَادَ
He wishes	يَتَمَنَّى(٧)	Sweets	الْحُلُوِيَاتِ (N)



Prepositions (حُرُوْفُ الْجَرَ) are 20 but the most common used are 8:

Noun +Preposition + noun with Kasrah or tanween of kasrah is essmon majroor (اسم مجرور)
أَكْتُبُ بِــالْقَلَــمِ I) . write with the pencil)
أَكْتُبُ بِــقَلَــمِ I write . (I write with a pencil)

English	Arabi	с
From	مَنْ	1
То	إلَى	2
about	عَنْ	3
on, above	عَلَى	4
in	في	5
Like, similar to	ك	6
For, to	ل	7
By, with, in	Ļ	8



GEOGRAPHY

Topic

Endangered Ecosystems

Keywords

Ecosystem Biomes Desert TRF Coral reefs Polar Forest Savannah Nutrient cycle Food webs Food chains Energy flows Biotic Abiotic Biomes Habitat Consumers Biomass **Decomposers** Herbivore Omnivore Carnivore Deforestation Climate change Plastic pollution Invasive species Threat

E	ndangered Anin
•	Siberian Tigers
•	Bonobo Apes
•	Giant Pandas
•	Mountain Gorillas
ŀ	Black Rhinos
ŀ	Hawksbill Turtles
ŀ	Sumatran Orang-uto
ŀ	Fin Whales
ŀ	Asian Elephants
•	Amur Leopard



MAP OF DEFORESTATION FRONTS





HISTORY

Key Terms		Key events we study					
Militarism	The opinions or actions of people	Event	Image		Description	Date/s	Fact
	who believe that a country should use armies and force to gain power and achieve its goals	Trench Warfare		To prevent enemy advances, both sides built large trenches, which stretched from the North Sea, through Belgium and France. As a result, neither side made much ground from late 1914 until early 1918. Attacks involved going across No Man's Land (in the middle) where attackers were open to machine gun fire, mines, and shells. Casualties were huge. Life in the trenches were awful, with diseases like trench foot rife. Mustard gas was a war agent used, causing blisters on skin and lungs. It caused excruciating pain and often death.	e September e 1914 until 's November	The enemy trenches were generally 50 to 250 metres apart. In between, No Man's Land was littered with barbed wire, mines, and bodies.	
Alliances	When countries or people join together because it helps all groups to do so – in the case of WWI for				e 1918 (the end of the war).		
Imperialism	protection The policy of taking control over	Battle of the Somme		The Battle of the Somme was the largest battle of World War I on the Western Front. More than 3 million fought in the battle, with more than 1 million killed or injured. At the end of the battle, the Allies had advanced 6km.			The battle is known for being the first use of the tank.
	other countries as part of an empire and to gain access to the resources of these countries	America Declares War	HERVORK OCCINAL Heres by a Viet of 373 to 50 Power Joint Resulter WAR IS DECLARED BY U.S.	President Woodrow Wilson declared war on Germany, citing Germany's violation of its pledge to suspend unrestricted German warfare in the Northern Atlantic and Mediterranean. This had caused sinking of US ships.		6 th April	The arrival of fresh US troops helped to turn the war.
Nationalism	The belief that one's country is superior to other countries	Armistice	t	The Armistice of the 11 th November 1918 signaled the end of the fighting between the Allies and Germany. Previous armistices had already been agreed with the other central		11th	The fighting ended
Propaganda	Information, especially of a biased or misleading nature, used to promote a political cause or	of 11 th November		powers. It came	into force at 11am. It marked a victory for th at for Germany although was not officially of German surrender.		on the 11 th hour of the 11 th day of the 11 th month in 1918.
	point of view and to convince people to form opinions which suit your point of view – often used by	Trenches Cross Section					
	governments	Sandb	ags Barbed	wire t	Aircraft can warn of the build-up of enemy troops before an attack a machine	e-gun	Long-range artillery is placed about 10 km behind the front line. These guns fire at advancing enemy troops
Stalemate	A situation in which no one can win	200	9		Barbed wire: metres deep and an impassable obstacle for any troops	Reserve	
Attrition	Very slow and gradual progress	C		Part -	able to mach it		Communication trenches
Shell shock	An emotional or psychological condition brought about by long term experience of war			Ammunition Shelf			them to energy the
Memorial	A statue, structure or written piece created to remind people of a person or event	Dug-out		e step boards	No Man's Land (the stretch of land between the trenches of the opposing sides) has already been churned up by shell fire. In wet weather it becomes a mass of mud, making it even harder for troops to cross PROBLEMS F/	Front-line dug-outs provide protection but not against a direct hit from an artillery shell ACING ATTACKING T	A deep dug-out. German ones could be 15 m below ground and too well constructed to be damaged by shell fire



HEART FOR LIFE

Money & Me-Key Terms

Savings account	Accounts specifically designed for you to save money in, usually best for saving larger amounts of money.
Delayed gratification	Postponing the sense of enjoyment from immediate spending to sometime further in the future.
Debt	Money you owe to another person or organisation.
Bank account	A service from a bank or building society which lets you pay in money, get cash out and pay bills. The bank keeps a record of all transactions.
Budgeting	The process of managing your money and the balance between your income and your outgoings.
Loan:	A sum of money that you borrow from a person or or organisation, usually with interest.
Salary	An amount of money paid to an employee for a job, usually paid directly into his or her bank account every month.
Financial Risk:	To gain financial rewards, there is often some element of risk involved – the outcome of a financial decision may not be certain or guaranteed.
Fraud	When a person dishonestly and deliberately deceives a victim for personal gain of property or money.
Identity theft	Identity theft: This is a type of fraud and is the act of a person illegally obtaining information about someone else for financial gain.

What Skills will I Develop in Heart for Life?

Each lesson will have opportunities to develop your skills through a variety of learning activities, ranging from:

- Thinking skills
- Enquiry and evaluation skills
- Research skills
- Debate and communication skills Active learning.
- Reflective learning skills.
- Personalised learning skills.
- Revision and recall.





Overview

Students will explore themes around saving, borrowing and the world of work to give them knowledge, skills, and attitudes they need to make informed decisions about managing their money. The unit will help students think about how they can become financially capable so they can manage their money successfully and achieve future goals in life.

Key Concepts

Relationships, Living in the Wider World and Health and Wellbeing. Clear cross-curricular links with Maths.

Essential Attributes Developed Through Heart for Life.

- Self -Improvement
- Resilience
- Self-organisation
- Clarifying own values
- Developing and maintaining a healthy self concept
- Empathy and compassion
- Respect for others
- Skills for employability
- enterprise skills



ART & DESIGN

Topic

Augmented Reality App Design

Key Words					
Logo	A logo made from initials				
Branding	A logo made from initials				
Symbol	An image / picture				
Logogram	A logo made from initials				
Logotype	A logo made from a word				
Typography	Art of arranging. designing type				
Colour Association	Theory of how specific colours can provoke a response				
Colour Combinations	Use of colours to inspire a theme or reaction - cool, calm, energetic, conflicting, contrasting				
Unique Selling Point	What makes your product/ service/ stand out against others				
Augmented	Enhanced digitally				
Target Market	Potential audience aimed at				
UI/ User Interface	Design of a users experience navigating with and engaging with digital design (app/ web)				

Key Questions

- What is my company or product name and is it easy to understand?
- Who are my **rivals**, and what makes them stand out / be popular?
- What are the **trends** in the market area?
- What **symbols** come to mind and how could they be more unique?
- **Who** am I aiming my product at and what appeals to them?
- How could my brand be **unique**? What is my **Unique** Selling Point?
- What **tone** should my design express? (Premium / Budget / Informal etc.)
- Which colours or colour combinations would **attract** my market?
- How could I use typography to be more unique?









Design , Technology & Engineering

Topic

Engineering Systems

Describing Systems

System Block Diagrams: On a system block diagram, the blocks represent the functions or sub-systems; the arrows represent the signals that are sent from and to each block

Schematic Drawings: Show the individual components required and how they are connected together

Flowcharts: Are used to show the order in which a set of events is carried out. For example, they can be used to show how a set of manufacturing processes is carried out or how quality control procedures are applied to it

Electrical Systems

Electric Current: An electric current is a flow of electric charge through a conductive medium, such as a wire **Output Devices:** Can be used to provide light, sound or movements. As with inputs, the outputs selected depend on the requirements of the system



Structural Systems

Structural Systems: The purpose of a structural system is to resist loads and forces that could otherwise cause the main structure to deform or fail.

- Space frame structures
- Monocoque structures

Electronic Systems

Analogue and Digital Signals: Electronic systems and subsystems collect, transmit, alter and output both analogue and digital signals

Sensor Inputs: Allow systems to gather information about the environment around them; for example changes in light or temperature

Process Devices: Are often thought of as the 'brain' of an electronic system; they work by responding to signals **Programmable Devices:** Can be used to perform more complex operations than discrete circuits

Interfacing Components: Also known as drivers, boost the output signal going from the process block of an electronic system

Output Components: Turn an electronic signal into real world signals such as light/sound/movement

Discrete Components within a Circuit: Are components that are not inputs or outputs but still play an important role **Simple Programming for Monitoring and Control Processes:** Are designed to make sure engineered products are produced to a high level of consistency





Pneumatic Systems

Pneumatic and Hydraulic Circuits: Hydraulic systems use a liquid, such as oil or water to control a medium. Pneumatic systems use a compressible gas, such as air

Pneumatic Systems versus Hydraulic Systems: Consider the speed of operation

Common Pneumatic Circuits and Components: Single and double acting cylinders, delay circuits, logic circuits **Applications of Pneumatics:** High speed, accurate and precise; therefore used for- robotic applications, drills, saws, screwdrivers, hammers, jackhammers and assembly tools



Mechanical Systems

Linkages: Are used to change the size of a force, the direction of motion and/or the type of motion Mechanical Advantage: Linkages can be used to provide mechanical advantage; which is the ability of a mechanism to move a large load with a small effort force, usually written without any units

Conversion of Motion: Mechanical systems can be used to change the direction of motion in a system

Gear Trains: Transmit rotary motion and torque **Chain and Sprocket:** A series of links are joined together with steel pins to make the chain. The sprockets are toothed wheels which the chain fits over

Cams and Followers: Cams and followers turn rotary motion into reciprocating motion

Pulleys: Pulley systems are used to reduce effort when lifting loads and to transfer power within a system. They transmit rotary motion

Bearings: Are machine parts; their role is to control motion and reduce friction between moving parts



RELIGIOUS EDUCATION

Topics

- Living the Muslim life
- Healthy living & Islam
- 4 Schools of Figh
- Halal and Haram

What Is Halal?

Halal is that which adheres to Shariah (Islamic Law). Halal meat must be slaughtered in a specific manner according to the Quran and Hadith



What Is Haram?

The Arabic term for forbidden (unlawful). For example certain food and drinks are considered Haraam such as pork and alcohol. Muslims must choose between

Muslims must choose betwee Halal and Haraam

Key Words

- Shariah Islamic law
- Figh the theory or philosophy of Islamic law, based on the teachings of the Quran and the traditions of the Prophet. Muhammad (SAW)
- Religious Law Laws pertaining to religions
- Monarchy A form of government with a monarch at the head
- Moral responsibility How do people act morally and how do they morally choose
- Alcohol
- Drugs
- Halal Something which is permissible
- Haram Something which is
- impermissible

Key Questions

- How do Muslims make moral and legal decisions?
- What is the difference between religious law and law of the land?
- How does a person follow religious law as well as the law of the land?
- How do Muslims act as stewards by taking care of their own bodies?
- What is it important to live a healthy lifestyle?
- Why are some foods halal and some haram?
- What are Islamic teachings on alcohol and drugs?





The 4 Main Schools Of Fiqh

Hanafi:

The Imam of this school was called Abu Hanifah, Nu`man bin Thabit (may Allah have mercy upon him). He was of Persian origin. He was born in Kufa, Iraq, in the year 80 AH.

Maliki:

The Imam of this school is Malik bin Anas (may Allah have mercy upon him) who was born in 95 AH and passed away in 179 AH at the age of 86. He was blessed to have been born and pass away in the blessed city of Madinah. He was buried in Jannah al-Baqi

Shafi'i:

The Imam of this school is Muhammad bin Idris (may Allah have mercy upon him). He was born in Gazzah in the year 150AH. He died in Egypt in the year 204 AH. His lineage meets with that of the Prophet (peace be upon him) on the seventh level.

Hanbali:

The Imam of this school is Ahmad bin Muhammad bin Hanbal (may Allah have mercy upon him) who was born in 164 A.H and passed away in 241 A.H at the age of 77. The city of birth and death was Baghdad, Iraq

HONESTY | EXCELLENCE | ACCOUNTABILITY | RESPECT | TEAMWORK

Shariah – Is

MADANI SCHOOLS FEDERATION

