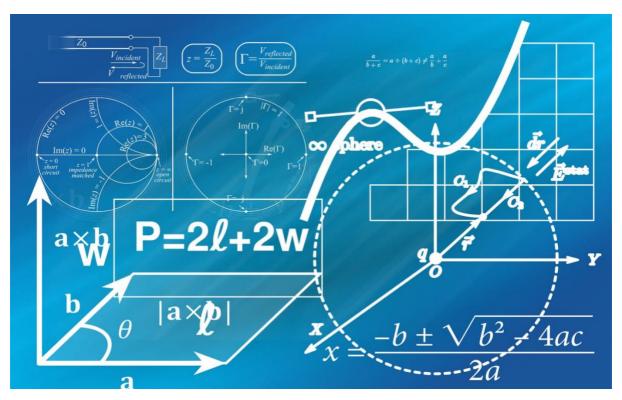




Geometry



Mini Lecture

EXAMPLE

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Lesson Plan: Geometry EXAMPLE

Lessons: Lecture Listening.

Time: 1 hour.

Level: *****[B1/ B2/C1].

Lesson Aim:

To focus on one key topic and develop a range of key academic skills based on this topic.

Introduction [5 minutes]

• Introduce the topic 'Geometry'.

<u>Listening: Lecture & Test Questions</u> [30-40 minutes + feedback]

Video: Available in paid download MP3: Available in paid download

- Give out the 'Listening: Mini Lecture Worksheet'.
- Students check key vocabulary.

Option 1

- Students look at the questions.
- Students listen & answer the questions.
- Give 2 minutes to tidy answers.
- Students listen again. Check answers & answer missed questions.
- Feedback: distribute or project ANSWERS.

Option 2 (harder)

- Students listen & take notes (Use paper or the PPT slides in the Appendix).
- Students listen again & add to their notes.
- Students use their notes to answer the questions.
- Feedback: distribute or project ANSWERS.

Post lecture extra ideas

- Write a 100-word summary of the lecture.
- Apply critical thinking strategies to the lecture. Use this critical thinking question document: https://www.academic-englishuk.com/wp-content/uploads/2020/03/Critical-Questions-a-linear-model-AEUK.pdf (writing, presentation or seminar).
- Research other types of geometry (presentation or seminar).
- Research the positives and negatives of geometry (presentation or seminar).





Listening: Mini Lecture Worksheet

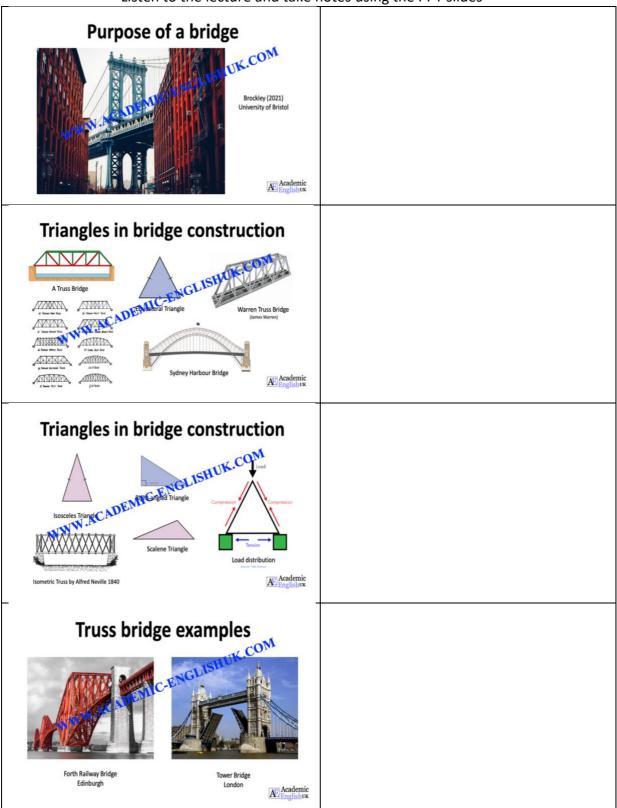
	1: Key Voca	abulary s and phrases be	oforo listo	nin a:				
Chec	k triese word		rore lister			mamba		
1000	tension	rigidity compression	load	frame	arch	membe	intrinsic	
Tools	. 1. I ootuwo I	istoning					_	
	x 2: Lecture l n to the lectu	re on bridge con	struction	and answer	the followi	ing auestions:		
2.1	Gap Fill	J				0 1		
	-	pose of a moder	n bridge. ⁻	The first lett	er is alread	y given.		
Tod	lay's modern	bridges are built	with	ınd a		reasons in mind,		
mal	king them an	iconic s	of	f xxxxxxxxx	000			
2.2	Name ON	E notable Truss	hridge				/2	
2.2	ivallie Olvi	- Hotable Huss	biluge.					
							/ 1	
2.3	Open Ques	stions						
		stions about the			idge structı	ires.		
i.	Which trian	gle is most comr	monly use	d?				
ii.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.00000000000000	00000000	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				
iii.	Why are scalene triangles not usually used?							
iv.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	000000000000000000000000000000000000000						
v. What is the main reason for using triangles in bridges?								
2.4	Multiple Ch	oice					/ 5	
Answ	ver these que	stions about Tru	ss bridges	s. Select ON	E answer or	nly per questic	on.	
i.	When was the Warren Truss bridge invented?				A. In 1840.			
					B.	XXXXXXX	1010	
ii.			VVVVVVVV		+		1840 and 1848.	
					A. Compression and tension above and below.			
					B. 00000	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	
					C. Compr	C. Compression above and tension below.		
iii.	What were truss bridges originally designed to do?			signed to	A.			
				B. Carry goods over water.				
j	MANAAAAAA		NANANAN	AAAAAAAA	A. Thou can be combined with other			
iv.	AAAAAAAA		AAAAAAA	AAAAAAAA	-	A. They can be combined with other bridges.		
					_	B. They are cheap to make.		
					C.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXX	
							/ 4	
2.4	Gap Fill	_						
		turer say about		dge structui	es? Comple	ete the gaps.		
Although modern bridges may use more , the a part of the overall design and construction.								
T - 1 -	I Score /1	a _		part of t	ne overall d	iesign and con	istruction.	





PowerPoint Slides

Listen to the lecture and take notes using the PPT slides





Listening ANSWERS

2.1 Gap Fill

Complete the purpose of a modern bridge. The first letter is already given.

Today's modern bridges are built with technical, social, financial and *aesthetic* reasons in mind, making them an iconic *symbol* of engineering.

/:

ALL ANSWERS ARE INCLUDED IN PAID VERSION...

Triangles Used in Bridge Design and Construction

(H. Kennedy, 2022)

Hello and welcome to this brief lecture on how and why triangles are used in bridge design and construction. According to Brockley, the purpose of a bridge is both technical and social, which includes financial and aesthetic reasons. Today's bridges not only transport goods and people safely, but they are also a platform for a symbolic or iconic feat of engineering.

THE FULL TRANSCRIPT IS INCLUDED IN THE PAID VERSION...

