



### YouTube Lecture Listenings 2 **EXAMPLE**

A selection of university lectures from top universities

#### **Contents**

Level: \*\*\*\*\* [C1]

#### **Commercial Law**

1. The Future of International Commercial Law in a Digital World

#### **Fintech**

2. FinTech: Shaping the Financial World – Challenger Banks

#### **Heart Disease**

3. Heart Failure

#### **Psychology**

4. Introduction to Psychology

#### **Quantum Theory**

5. Quantum fields: The Real Building Blocks of the Universe

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### **Commercial Law EXAMPLE**

1. The Future of International Commercial Law in a Digital World



### **Lecture Listening Comprehension EXAMPLE**

**Aim:** To develop the students' ability to listen to a long lecture, to take notes, use those notes to answer a number of comprehension questions and then reflect on the lecture critically.

**Lesson Time:** Approximately 2:00 hours

#### Lead in

- Ask Students to read the 'title' & predict the content of the lecture.
- Ask students to write down key terms & language from the discussion.
- Feed in / check key vocabulary.

### Differentiation

### **Challenging**

- 1. Students listen once & take notes (Use the blank note-taking page or page with sub-headings).
- 2. Give <u>5 minutes</u> to tidy notes.
- 3. Listen again & add to notes (use a different colour pen).
- 4. Distribute questions. Set <u>30 minutes</u> to answer using their notes.
- 5. Feedback: Distribute or project ANSWERS.

#### Medium

- 1. Students listen once & take notes (Use the blank note-taking page or page with sub-headings).
- 2. Distribute questions. Set 20 minutes to answer using their notes.
- 3. Listen again. Students answer the missed questions as they listen.
- 4. Give an extra 10 minutes to consolidate answers.
- 5. Feedback: Distribute or project ANSWERS.

#### **Easier**

- 1. Distribute questions. Students have 15 minutes to read the questions.
- 2. Students listen & answer the questions.
- 3. Give 10 minutes to tidy answers.
- 4. Students listen again. Check answers & answer missed questions.
- 5. Give 10-15 minutes to tidy answers.
- 6. Feedback: Distribute or project ANSWERS.

### **Critical thinking questions**

**Option 1:** Students individually reflect on the questions, make notes of their responses and write a short critical response paragraph to submit for teacher or peer feedback.

Option 2: Students ask and answer the questions in small groups.

#### Full URL Link:

https://www.youtube.com/watch?v=TvauoAKJbW0





### The Future of International Commercial Law in a Digital World

[Listening Comprehension Questions] **EXAMPLE** 

Author: Professor Christian Twigg-Flesner

**University:** Warwick Law School

Subject & Title: Law: The Future of International Commercial Law in a Digital World

Date: 2018 Time: 53:00 Level: \*\*\*\*\* [B2/C1]

Link: https://www.youtube.com/watch?v=TvauoAKJbW0

### Check these words and phrases before listening:

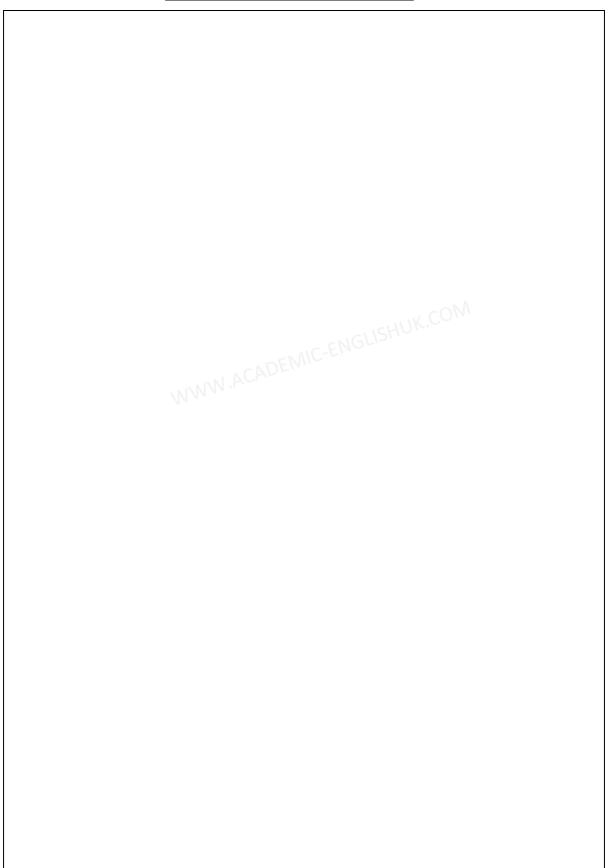
	iese words and pri
Key vo	<u>ocabulary</u>
1.	Algorithm.
2.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.	Blockchain.
	Business model.
5.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	Commodity.
7.	x000000000000
	Digital content.
	Disruptive.
10.	
	Guarantee.
12.	
	Hobbyist.
	Intermediary.
15.	
	Lease.
	Legislation.
18.	
	Protocol.
20.	
	Reform.
	Sensor.
23.	
	Supplier.
25.	
	Transaction.
27.	
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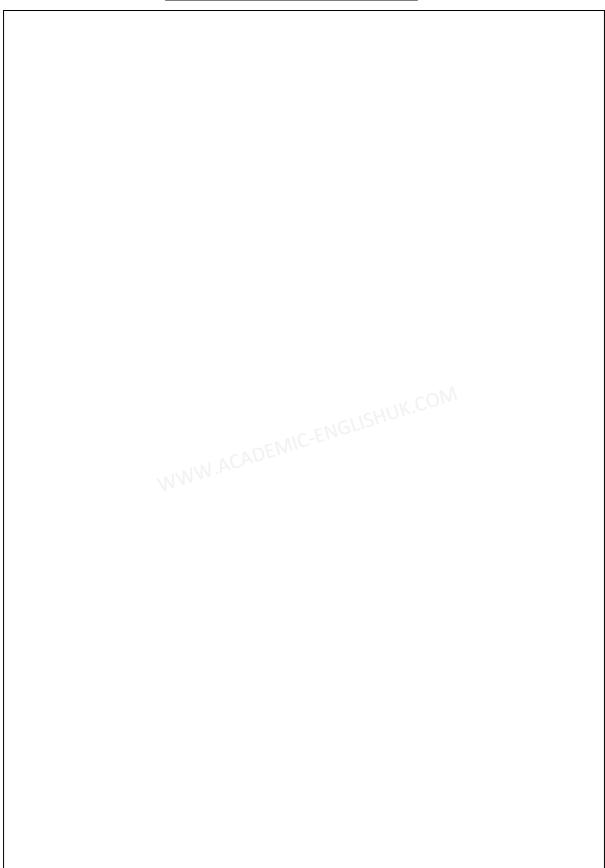


### Note-taking Page (Blank) Page 1 EXAMPLE





### Note-taking Page (Blank) Page 2 EXAMPLE





### Note-taking Page (Sub-headings) Page 1 EXAMPLE

1 International Law
1. International Law
2. New Business Models
<u></u>



### Note-taking Page (Sub-headings) Page 2 EXAMPLE

3.	and the Digital World
ACA. MAN.	
Was	
4.	World
5. Summary	



# The Future of International Commercial Law in a Digital World

Christian Twigg-Flesner [https://www.youtube.com/watch?v=TvauoAKJbW0] **EXAMPLE** 

Use your notes to answer the following questions using the sections headings to help you.

1. International Law		
1.1. How does the speaker define commercial law?		
1.2. What role does an agent play in a typical commercial transaction?		
1.3. What is		
1.4. Why do we need international commercial law (ICL)?		
1.5. What is ICL's		
1.6. What are focus on?		
1.7. Why is problematic?		
2. The Digital World and New Business Models 2.1. How does the speaker encapsulate 'a digital world'?		
2.2. Give and what it does.		



2.3. How is	beneficial?	
2.4. What's the role of sensors in stock replenishmer	nt?	
2.5. How	data?	
2.6. How does	'smart contracts'?	
3. Law, Technology Development and the Digital World 3.1. How does the digital world impact on law negatively?		
3.2. How to	o the speaker?	
3.3. What	reform?	
4. ICL and the Digital World 4.1. What conventions or model laws has ICL drawn	up since 1996?	
4.2. To suc	ccessful?	





### 5. Summary

Critical thinking: What do you think of this lecture? Has anything surprised you? If so, what? What was
missing from the lecture? with the speaker's
summation of the digital world? Why do you think the size and scope of the current digital world is
technology connote a
any other reasons why ICL has found it difficult to keep up with the pace of change in international
reflect the current
obsolete that even newer laws will be needed again? Do you believe it's better for each country to
?



# The Future of International Commercial Law in a Digital World ANSWERS

### 1. International Law

### 1.1. How does the speaker define commercial law?

Commercial law is defined as the legal principles and rules which relate to the private rights of the different parties, i.e. seller and buyer, in a transaction of goods, services and digital content.

### 1.2. What role does an agent play in a typical commercial transaction?

An agent is a third party who represents the seller or supplier and negotiates the contract with the buyer.

### 1.3. What is the Documentary Credit System?

It's a system which involves banks as trusted third parties to arrange payment between the seller and ...

ALL ANSWERS INCLUDED IN PAID VERSION...





### Fintech **EXAMPLE**

2. FinTech: Shaping the Financial World – Challenger Banks



# **Lecture Listening Comprehension EXAMPLE**

**Aim:** To develop the students' ability to listen to a long lecture, to take notes, use those notes to answer a number of comprehension questions and then reflect on the lecture critically.

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#### Lead in

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#### Differentiation

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### **Critical thinking questions**

**Option 1:** Students individually reflect on the questions, make notes of their responses and write a short critical response paragraph to submit for teacher or peer feedback.

Option 2: Students ask and answer the questions in small groups.

#### **Full URL Link:**

https://www.youtube.com/watch?v=oYR6xdcFNwc





### FinTech: Shaping the Financial World – Challenger Banks

[Listening Comprehension Questions] **EXAMPLE** 

**Author:** Professor Gary Gensler

**University:** Michigan Institute of Technology

**Subject & Title:** FinTech: Shaping the Financial World – Challenger Banks

Date: 2020 Time: 64:00 Level: \*\*\*\* [B2/C1]

**Link:** https://www.youtube.com/watch?v=oYR6xdcFNwc

### Check these words and phrases before listening:

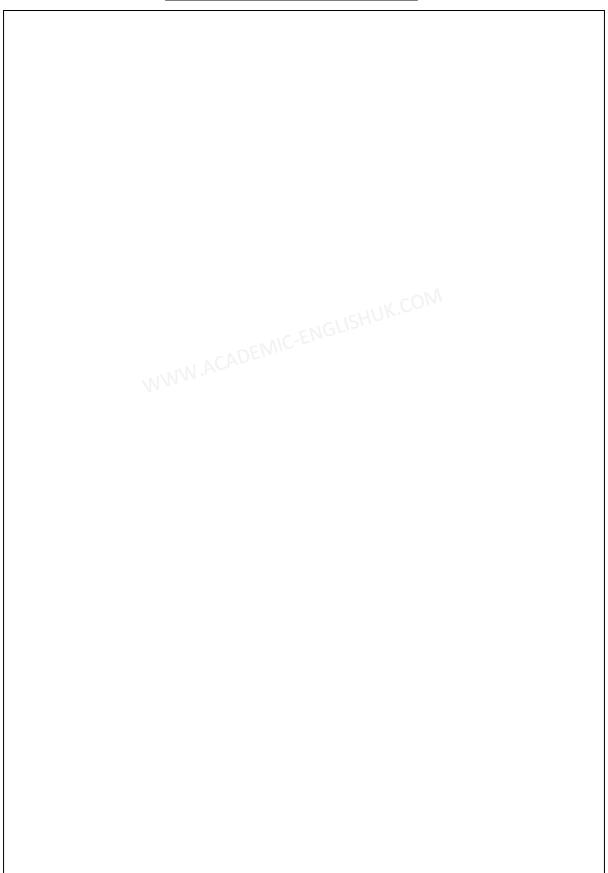
Key v	ocabulary
1.	Assets.
2.	Auto-lender.
3.	
4.	Cash flow.
5.	
6.	Credit rating.
7.	
8.	Expenditure.
9.	
	GDPR (General Data Protection Regulation).
	Income.
12.	
	Late fees.
14.	
	Licence.
16.	
	Merge.
19.	Micropayment.
	Product commoditisation.
	Receivables.
22.	
	Rollout.
24.	
	Underwriting.
26.	
	Venture capitalist.
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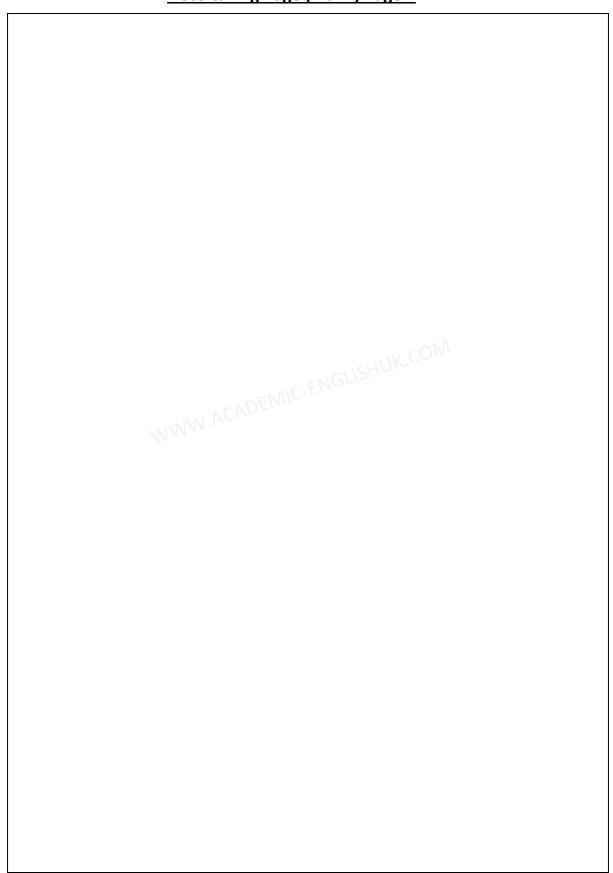


### Note-taking Page (Blank) Page 1 EXAMPLE





### Note-taking Page (Blank) Page 2 EXAMPLE





### Note-taking Page (Sub-headings) Page 1 EXAMPLE

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1. Introduction
2. and Alternative Data
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3. Banks
4. Challenges of Traditional Banking
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5. Banks
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MINN.ACE
5. Banks  WWW.ACADEMIC-ENGLISHUK.COM



### Note-taking Page (Sub-headings) Page 2 EXAMPLE

<u>6.</u> <u>V</u> a	<u>luations</u>
	WWW.ACADEMIC-ENGLISHUK.COM
7 Toodisional Books	
7. Traditional Banks  8. Big Tech	, stuk.com
9.	



### FinTech: Shaping the Financial World – Challenger Banks Prof Gary Gensler

https://www.youtube.com/watch?v=oYR6xdcFNwc EXAMPLE

Use your notes to answer the following questions using the sections headings to help you.

### 1. Introduction

1.1. What is a challenger bank in simple terms?

### 2. Credit Scoring and Alternative Data

2.1. What does the FICO Score System do?

2.2. Name 1. 2. 3. 4. 5.	'alternative data'.
2.3. Why would a	company?
2.4. How is	of a data aggregator?
2.5. How does alternative data impact on GDPR?	

### 3. Neo and Challenger Banks

3.1. What is the difference between a challenger bank and a neobank?





4.1. What are	banking?
5. Challenger Banks	
5.1. Why did	particular?
5.2. When did	begin?
5.3. Is an online bank the same as a challenger bank?	Why/why not?
5.4. What are some of the challenger bank?	with a
5.5. Where in the	banks?
5.6. With so many challenger banks in competition, wh at some point?	nat does the speaker believe will happen
5.7. How has the and 2019?	grown between 2016
6. Funding and Valuations 6.1. Is there a	valuation?





### 6.2. What does 'negative funding' mean?

6.3. What	on?	
6.4. What	to?	
6.5. How is the challenger bank model profitable?		
6.6. What influence		banks?
7. Traditional Banks Mobile Offerings 7.1. How have traditional		banks?
8. Big Tech 8.1. What does the speaker predict will happen wit	h regards to <i>Apple</i> and	Amazon?
9. Summary		
Critical thinking: What do you think of this lecture? Has	anything surprised you? If	so, what? What was

he gave need more support?
how their data is being used by banks? Do you think it is acceptable for banks to use your alternative data?

and not others?



the FinTech space? Do you agree that too many

big tech

challenger banks are a bad thing? Will traditional banks ever be



### FinTech: Shaping the Financial World – Challenger Banks ANSWERS

#### 1. Introduction

1.1. What is a challenger bank in simple terms?

A challenger bank is an internet-only bank. It does not have the typical 'bricks and mortar' premises like a traditional bank.

### 2. Credit Scoring and Alternative Data

2.1. What does the FICO Score System do?

The data analytics company uses aspects such as a customer's payment history, credit history and amounts owed to assess someone's credit rate.

- 2.2. Name the five main features that constitute 'alternative data'.
- 1. Income and outgoings (rent, mortgage, utilities).
- 2. Cash flow underwriting.
- *3.* ....

**ALL ANSWERS INCLUDED IN PAID VERSION...** 





### **Heart Disease EXAMPLE**

3. Heart Failure





### **Lecture Listening Comprehension**

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#### **Full URL Link:**

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





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#### **Full URL Link:**

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





### **Heart Failure EXAMPLE**

[Listening Comprehension Questions]

Author: Joseph Alpert

**University:** United States Medical Licensing Examination

Subject & Title: Medicine: Heart Failure

Date: 2018 Time: 37:00

**Level:** \*\*\*\*\* [B2/C1]

Link: https://www.youtube.com/watch?v=eThrxyAobsQ

Check these words and phrases before listening:

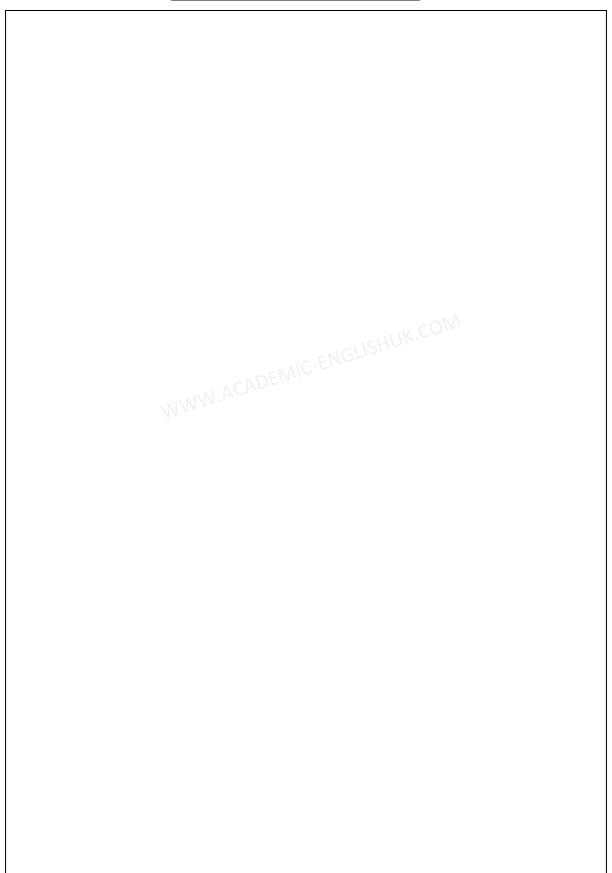
### **Key vocabulary** 1. Arrhythmia. 2. Atherosclerosis. 3. 4. Bypass. 5. 6. Cardiomyopathy. 7. Cholesterol. 8. 9. Contractility. 10. Electrocardiogram (ECG). 11. 12. Fluid accumulation. 13. 14. Neurohormonal system. 16. Pacemaker. 17. 18. Retention. 19. Shortness of breath. 20. 21. Swelling. 22. Sympathetic nervous system. 23. 24. Ventricle.

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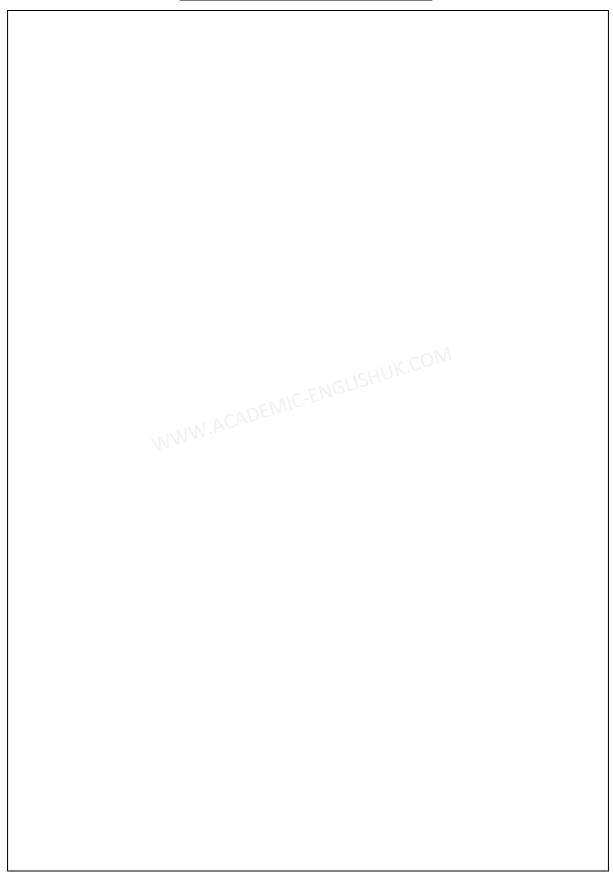


### Note-taking Page (Blank) Page 1 EXAMPLE





### Note-taking Page (Blank) Page 2 EXAMPLE





### Note-taking Page (Sub-headings) Page 1 EXAMPLE

1. Introduction	
2. NWW.ACADEMIC-EN	
WWW.ACADEMIC	
3. Types of heart failure	
4. WWW.ACADEMIC-	



# Note-taking Page (Sub-headings) Page 2 EXAMPLE

5. Symptoms	
<u>6.</u>	WWW.ACADEMIC-ENGLISHUK.COM
<u>7.</u>	
8. Summary	WWW.ACADEMIC-ENGLISHUK.COM



# **Heart Failure** – Jospeh Alpert **EXAMPLE**

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

Use your notes to answer the following questions using the sections headings to help you.

1. Introduction	
1.1. How is heart failure defined?	
1.2. How many	each year in the US?
1.3. In which	most common?
1.4. What does he refer to by the term 'growth indus	stries'?
1.5. What	and afterload?
1.6. What	heart failure?
2. Dethembusiology	
<ul><li>2. Pathophysiology</li><li>2.1. Explain what Starling's Law is.</li></ul>	
2.2. How is	?
2.3. What is the	?





www.	.acad	em	ic-engl	lishu	k.com

2.4. What are the <b>FIVE</b> compensatory mechanisms	
someone with heart failure?	
i.	
ii.	
iii.	
iv.	
V.	
2.5. What	lead to?
3. Types of heart failure	
3.1. How do left-sided and right-sided heart failure o	differ from each other?
-	
3.2. At what	symptoms?
	, .
4. Causes	
4.1. What are	the risk of heart failure?
5. Symptoms	
5.1. Name	with heart failure.
i.	
ii.	
iii.	
iv.	
V.	
vi.	
vii.	
viii.	
6. Tests	
6.1 What kinds of	heart failure?





### 7. Treatment

7.1. What are diuretics and at what stage of heart failure are they used?

7.2. Name FIVE  i. ii. iii. iv. v.		from progressing?
7.3. Why are beta blockers		the effects of heart failure?
8. Summary		
Critical thinking: What do you th	nink of this lecture? Has anything he gave need	surprised you? If so, what? What was do tests on
the heart after a	and doctors 214/by aron't wa	make healthier lifestyle choices?
and its impacts?	and doctors? Why aren't we smoking	and encourage physical activity, is this
working? What could be the real unde		. 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -



### **Heart Failure ANSWERS**

### 1. Introduction

1.1. How is heart failure defined?

Heart failure is the inability of the heart to pump enough blood to meet the demands of the body. A decreased cardiac output triggers an increase in blood volume and fluid accumulation, which in turn leads to oedema and circulatory congestion.

- 1.2. How many new patients are diagnosed with heart failure each year in the US? *Approximately 400,000*.
- 1.3. In which group of people is heart failure most common? For African-Americans the long-term outlook is worse, mainly due to socio-economic reasons. Heart failure is ....

ALL ANSWERS INCLUDED IN PAID VERSION...





# Psychology **EXAMPLE**

4. Introduction to Psychology





# **Introduction to Psychology EXAMPLE**

[Listening Comprehension Questions]

**Author:** Dr Fredy Aviles **University:** OpenStax College

**Subject & Title:** Psychology: *Introduction to Psychology* 

Date: 2021 Time: 45:00 Level: \*\*\*\*\* [B2/C1]

**Link:** <a href="https://www.youtube.com/watch?v=KcalbEHdGsY">https://www.youtube.com/watch?v=KcalbEHdGsY</a>

### Check these words before listening:

Key vo	ocabulary
1.	Adaptation.
2.	
	Autism.
4.	Behaviourism.
5.	
6.	Conditioning.
7.	
8.	Depression.
9.	Empathy.
10.	
	Functionalism.
12.	
	Humanism.
14.	
	Innate.
16.	
	Perception.
18.	
	Psychoanalysis.
20.	
	Reinforcement.
	Self-esteem.
23.	
	Stimulus.
	Structuralism.
26.	

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#### Lead in

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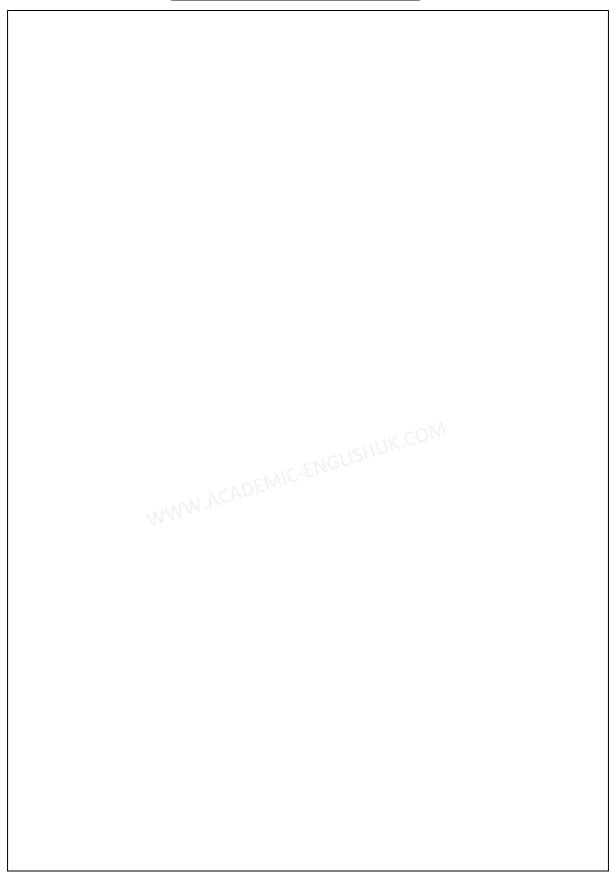
#### **Full URL Link:**

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



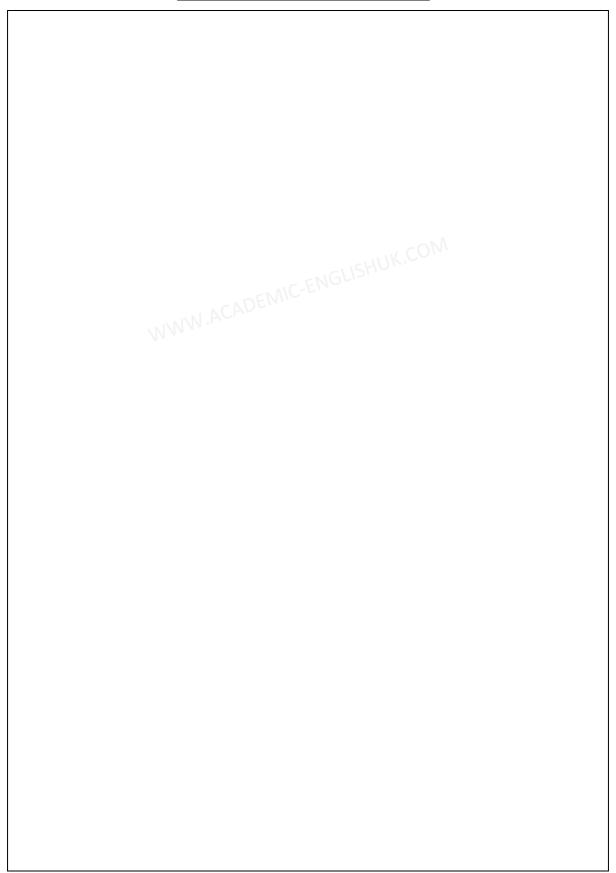


## Note-taking Page (Blank) Page 1 EXAMPLE





## Note-taking Page (Blank) Page 2 EXAMPLE





# Note-taking Page (Sub-headings) Page 1 EXAMPLE

1. Definition
2. roots  WWW.ACADEMIC-ENGLISHUK.COM
3. Approaches to psychology



# Note-taking Page (Sub-headings) Page 2 EXAMPLE

<u>4.</u>	osychological fields
	WWW.ACADEMIC-ENGLISHUK.COM
<u>5.</u>	WWW.ACADEMIC-ENGLISHUK.COM



1. Definition and goals

# Introduction to Psychology – Fredy Aviles

https://www.youtube.com/watch?v=KcalbEHdGsY\_EXAMPLE

Use your notes to answer the following questions using the sections headings to help you.

2. W	'hat	to the speaker?
3. Lis	st the <b>FOUR</b>	of each one.
	XXXXXXXXXX	Example
i.		
ii.		
iii.		
111.		
iv.		
iv.	<b>chology's roo</b> /hich <b>TWO</b> na	
iv. <b>2. Psy</b> 2.1. W vhy?		Why
iv. <b>2. Psy</b> o 2.1. W	/hich <b>TWO</b> na	

words.

3.3. According to Freud,	100000000000000000000000000000000000000	?



3.2. Explain

www.academic-englishuk.com	
3.4. What is Pavlov's	.0000000000000000000000000000000000000

3.5.	Which TWC	names are	associated	with	behaviourism	and why	/?

	Name	Why?
i.		
ii.		

3.6. Lis	t <b>THREE</b> 'needs' and	of needs.
	Need	Corresponding Examples
i.		
ii.		
iii.		

3.7. What	develop?
-----------	----------

3.8. What is Chomsky	?
----------------------	---

### 4. Contemporary psychological fields

4.1. What are some of the	4.1. What are some of the	100000000000000000000000000000000000000	fields?
---------------------------	---------------------------	---	---------

4.2. How

4.3. What does The Five Factor Model aim to do?





4 5 144								
	nat <b>THREE</b>	XXXX	>>>>>>	OXXXXXX	XXXXX	XXXX	XXXXXX XXXXXXX	psychology?
i.		ii.			iii.			
4.6. De	fine the bio	osycł	nosocial mod	lel.				
	ve <b>THREE</b> logist is nee	ded.		200000000	00000	0000		which a forensic
		xam	ole				Explanation	
i.								
ii.								
iii.								
5. Sum	marv							

Critical thinking: What do you think of this lecture? Has anything surprised you? If so, what? What was he gave need more define psychology? Are into psychology? Why do you think there are so many different approaches to psychology? Do you think psychology is? In way people think, feel and behave be beneficial? How could it be detrimental? Why do you think industrial in psychology? Which of the do you believe will become the most researched?





# **Introduction to Psychology ANSWERS**

### 1. Definition and goals

1.1. What's Spielman's definition of psychology?

The scientific study of mind and behaviour. It's about how we think and what we do.

1.2. What aspect is missing from this definition according to the speaker?

Our emotions, or how we feel. However, theory suggests that emotion is made up of both thought and physical response in the body, so this could be suggested by both mind and behaviour.

1.3. List the **FOUR** goals of psychology with an example of each one.

	Goal	Example
i.	Describe	What does depression / aggressive behaviour look like?
ii.	Predict	Who's more likely to become depressed / be more difficult / be aggressive / get divorced?

ALL ANSWERS INCLUDED IN PAID VERSION...





# **Quantum Theory EXAMPLE**

5. Quantum fields: The Real Building Blocks of the Universe



## **Lecture Listening Comprehension EXAMPLE**

**Aim:** To develop the students' ability to listen to a long lecture, to take notes, use those notes to answer a number of comprehension questions and then reflect on the lecture critically.

**Lesson Time:** Approximately 2:00 hours

#### Lead in

- Ask Students to read the 'title' & predict the content of the lecture.
- Ask students to write down key terms & language from the discussion.
- Feed in / check key vocabulary.

### **Differentiation**

#### **Challenging**

- 1. Students listen once & take notes (Use the blank note-taking page or page with sub-headings).
- 2. Give <u>5 minutes</u> to tidy notes.
- 3. Listen again & add to notes (use a different colour pen).
- 4. Distribute questions. Set 30 minutes to answer using their notes.
- Feedback: Distribute or project ANSWERS.

#### Medium

- 1. Students listen once & take notes (Use the blank note-taking page or page with sub-headings).
- 2. Distribute questions. Set 20 minutes to answer using their notes.
- 3. Listen again. Students answer the missed questions as they listen.
- 4. Give an extra 10 minutes to consolidate answers.
- 5. Feedback: Distribute or project ANSWERS.

#### **Easier**

- 1. Distribute questions. Students have 15 minutes to read the questions.
- 2. Students listen & answer the questions.
- 3. Give 10 minutes to tidy answers.
- 4. Students listen again. Check answers & answer missed questions.
- 5. Give 10-15 minutes to tidy answers.
- 6. Feedback: Distribute or project ANSWERS.

### **Critical thinking questions**

**Option 1:** Students individually reflect on the questions, make notes of their responses and write a short critical response paragraph to submit for teacher or peer feedback.

Option 2: Students ask and answer the questions in small groups.

#### **Full URL Link:**

https://www.youtube.com/watch?v=zNVQfWC\_evg





## **Quantum Fields: The Real Building Blocks of the Universe**

[Listening Comprehension Questions] **EXAMPLE** 

**Author:** Professor David Tong **University:** Cambridge University

**Subject & Title:** Physics: Quantum fields: The Real Building Blocks of the Universe

Date: 2017 Time: 60:00 Level: \*\*\*\*\* [B2/C1]

Link: <a href="https://www.youtube.com/watch?v=zNVQfWC">https://www.youtube.com/watch?v=zNVQfWC</a> evg

#### Check these words and phrases before listening:

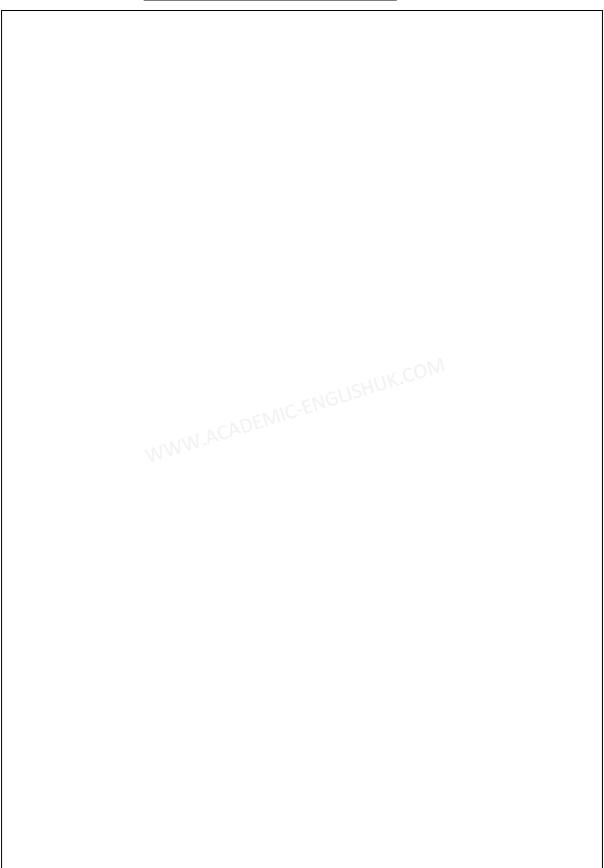
Key vo	ocabulary
	Atom.
2.	
3.	Black Hole.
4.	Coil.
5.	
	Fluctuation.
	Force.
8.	
	Induction.
	LHC (Large Hadron Collider).
11.	
	Mass.
13.	
	Neutron.
15.	
	Oscillate.
	Particle.
18.	
	Proton.
	Quark.
21.	Spin.
23.	Spiri.
	The Big Bang.
	Vacuum.
25. 26.	wacaum.
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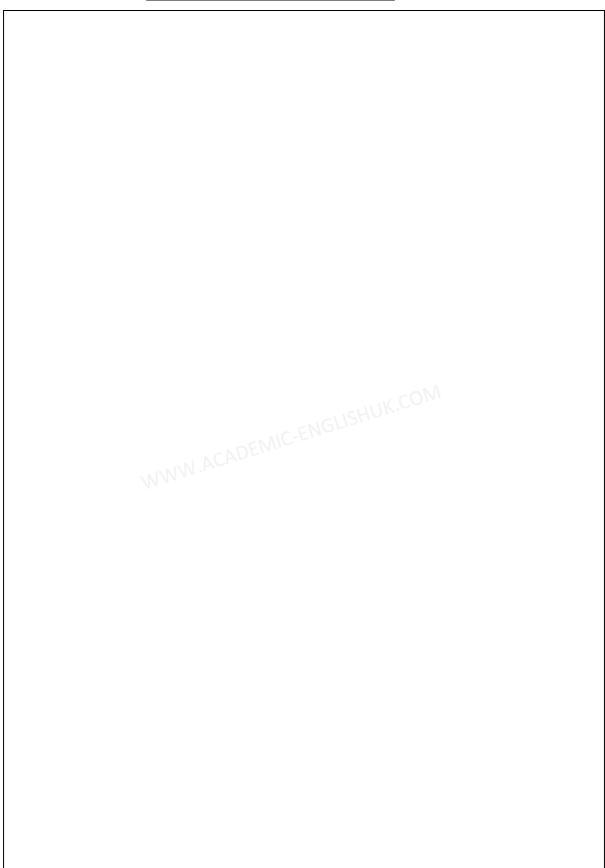


## Note-taking Page (Blank) Page 1 EXAMPLE





## Note-taking Page (Blank) Page 2 EXAMPLE





## Note-taking Page (Sub-headings) Page 1 EXAMPLE

1. Introduction	
<u>2.</u>	
3. Fields	
4. Theory	
111cory	



## Note-taking Page (Sub-headings) Page 2 EXAMPLE

5. The 'New' Periodic Table
WWW.ACADEMIC-ENGLISHUK.COM
6. Everything
7. Large Collider (LHC)  WWW. ACADEMIC-ENGLISHUK.COM
8.

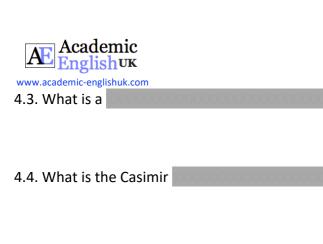


# Quantum Fields: The Real Building Blocks of the Universe - David Tong

https://www.youtube.com/watch?v=zNVQfWC\_evg\_EXAMPLE

Use your notes to answer the following questions using the sections headings to help you.

1. Introduction	
1.1. What's the outline of his talk?	
1.2. How relevant is in relation to his talk?	
<ul><li>2. Particles</li><li>2.1. What does an atom consist of according to Rutherford?</li></ul>	
2.2. How	
3. Fields	
field'?	
3.2. Who was Faraday and ?	
3.3. What was <b>ONE</b> of his greatest discoveries?	
4. O and the Fried Thomas	
4. Quantum Field Theory 4.1. What about?	
4.1. What	
4.2. How to particles and fields?	



4.6. What is the 'magnetic moment'?

4.7. What does represent?

fields?

### 5. The 'New' Periodic Table

4.5. How

5.1. How does the 'new' periodic table differ from the original?

5.2. How the electron?

5.3. How do with each other?

5.4. What **TWO** things is for?

1.

2.

5.5. What the Standard Model?

### **6. The Theory of Everything**

6.1. Name the ways the 'theory of everything'



?	
'grand unification'.	
	to new
	the beginnings of the universe?  'grand unification'.

missing from the lecture?	think of this lecture? Has anything surprised you? If so, what? What w ? Why do you		
branches of science for people to	understand? Do you	agree that one equal	tion is enough to explain how
100000000000000000000000000000000000000	How can we be sure		? Why do you think
physicists continue to look for new i	deas and theories to ex	plain how the universe	came to be? Can we ever really
100000000000000000000000000000000000000	? What about lookin	g more	st? How
important is it to know what our ur	iverse is made of?		





## **Quantum Fields: The Real Building Blocks of the Universe ANSWERS**

#### 1. Introduction

#### 1.1. What's the outline of his talk?

He will begin with an overview of the theoretical abstract ideas which underpin our current understanding of the universe and the experiments which look back to the Big Bang to understand what is happening. He will also give an overview of what progress we hope to make, and what is happening at the largest particle collider.

1.2. How relevant is the periodic table of elements in relation to his talk?

It was the first modern picture of what the universe is made of. It was thought to constitute of everything that exists in nature, but the speaker does not believe it is accurate enough and there is scope to go much deeper.

#### 2. Particles

2.1. What does an atom consist of according to Rutherford?

It consists of a nucleus, which is made up of protons and neutrons, which consist ...

**ALL ANSWERS INCLUDED IN PAID VERSION...** 

