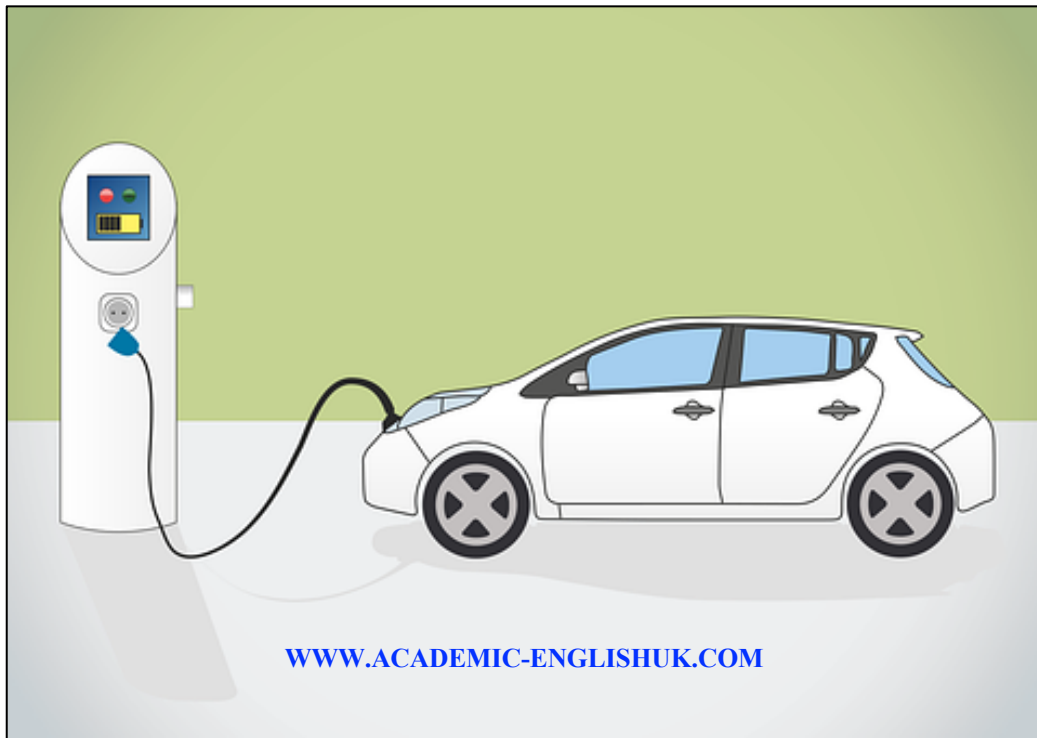




Electric Cars



Instant Lessons

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Lesson Plan: Electric Cars **EXAMPLE**

Lessons: Introduction, reading, listening, speaking (seminar) and writing.

Time: 1-1.5 hours.

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 'electric cars'.
- Give out the '**Reading Text Worksheet**' and discuss the lead in questions.

Reading: Test-Type Questions [20-30 minutes]

- Students read the text. Check words & meanings with a dictionary.
- Answer the questions.
- Feedback: distribute or project **ANSWERS**

Listening: Lecture & Test Questions [30-40 minutes]

Video (04:12): 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

- 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**.

Speaking: Seminar [10-15 minutes]

- Give out the '**Speaking Worksheet**'.
- Students revise content from the reading & lecture texts.
- Students hold a seminar discussion using the question prompts.
How to run a seminar: <https://www.academic-englishuk.com/seminars>

Writing: Summary [20 minutes + tutor feedback]

- This can be a homework task if limited time.
- Students use the two texts (reading and listening) to write a 150-word paragraph on 'electric vehicles (BEV)'.
- Tutor to error correct & return - <https://www.academic-englishuk.com/error-correction>

Reading Text Worksheet

Task 1: Lead In

1. What is an electric car?
2. Do you or anyone you know own an electric car?
3. What are the advantages and disadvantages of electric cars?
4. Look at the title of the reading text – what do you think it is about?

Task 2: Reading Text: **The Electric Car Revolution**

by J. Peterson (2021)

The popularity of battery electric vehicles (BEVs) in the UK has seen dramatic growth over the last few [REDACTED] (pure-EV & hybrid) [REDACTED] compared with just 3,500 in 2013 (Statistica, 2020). One of the main reasons for this is the [REDACTED] by the [REDACTED] cars by 2030. This is all part of the UK Government's 10-point plan for a 'green industrial revolution' [REDACTED] to support the [REDACTED] zero' emissions target (Gov.UK, 2020).

An electric car is propelled by one or more electric motors using energy stored in rechargeable [REDACTED] to the [REDACTED], have zero exhaust emissions, and produce up to 30% lower greenhouse emissions overall (EEA, 2020). There are [REDACTED] The electric [REDACTED] fully electric with high-capacity lithium rechargeable batteries. Depending on the make and model, the average [REDACTED]). The second type is the plug-in hybrid (PHEV) powered by both petrol and electricity. Its battery can be [REDACTED]. This [REDACTED] to 40 miles (64km) before its petrol engine provides assistance.

There are a number of public perceived barriers concerning the purchase [REDACTED] the [REDACTED] times (Statistica, 2020). However, as the technology is improving, so are the solutions. The cost of EV vehicles is falling [REDACTED] popular [REDACTED] as incentives to buy an EV (Gov.UK, 2020). Charging times vary with different chargers: a 3kw domestic [REDACTED] charger [REDACTED]. In fact, the UK Government is investing £1.3 billion in EV charging infrastructure over the next 4 years (ibid). At the [REDACTED] and until [REDACTED], EVs will be predominately for those who can charge at home.

References:

EEA, 2020. *European Environment Agency (EEA)* [REDACTED] quality. [online] Available at: <https://www.eea.europa.eu/highlights/eea-report-electric-cars> [Accessed 15 February 2021].

Gov.UK., 2020. [REDACTED] and diesel cars by 2030. [online] GOV.UK. Available at: <https://www.gov.uk/government/news/government-takes-historic-step-towards-net-zero.pdf> [Accessed 15 February 2021].

[REDACTED] 2020. *Electric vehicle market in the United Kingdom - Statistics & Facts*. [online] Statista. Available at: <https://www.statista.com/topics/2298/the-uk-electric/> [Accessed 15 February 2021].

Reading Text Questions

Task 3: Headings

Choose a subheading for each paragraph – one title is not needed.

1		A	The rise in electric cars
2		B	
3		C	The evolution of electric cars
		D	

____/3

Task 4: True, False or Not Given

Decide if these statements are true (T), false (F) or not given (NG). Highlight the answer in the text.

		T / F / NG
1	People want to invest in clean energy.	
2	The UK <input type="text"/>	
3	Gasoline internal <input type="text"/> cars.	
4	EV's can <input type="text"/> one charge.	
5	EV's are more energy efficient than PHEVs.	
6	Electric car <input type="text"/> grants.	
7	Many people feel they will suffer 'range anxiety' if they buy an EV.	
8	Now is <input type="text"/>	

/ 8

Task 5: Vocabulary

Key language – search for a word in the text that means:

Paragraph		Word
1	Relating to the protection of the environment.	
1	The good [REDACTED] that does not waste any.	
2	An amount of a substance that is produced and sent out into the air that is harmful to the environment.	
2	Relating [REDACTED] especially by making it more active or successful.	
3	Something [REDACTED] particular product.	
3	The basic structure of a system which is necessary for its operation, especially transport.	
3	To be the [REDACTED] important.	

____/7

Total Score ____ /18

Listening: Mini Lecture Worksheet

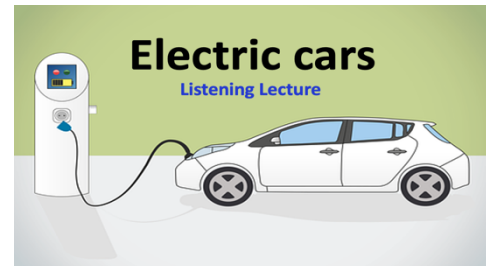
Task 1: Key Vocabulary

Check these words before listening:

electric car.		diesel.	petrol.	exponential				
		TESLA.	NISSAN.		a saloon car.	0-60 mph.	a single charge.	futuristic.
auto-pilot.		self-driving cars.		charging station.				
		spatial awareness.		credentials.			second nature.	

Task 2: Lecture Listening

Listen to the lecture on electric cars and answer the following questions.



2.1 Open Questions

i) What kind of growth has the electric car market seen in the last few years? (Include data)

--

___ / 2

ii) What are the _____ to improve the environment?

1	
2	

___ / 2

2.2 The TESLA 3

i) First car built in		ii) Price (£)		iii) _____ (sec)	
iv) Top speed (mph)		v) _____ (miles)		vi) Superfast charge (time)	

___ / 6

2.3 The NISSAN Leaf

i) Price (£)		ii) 0-60 mph (sec)		iii) _____ (mph)	
iv) _____ (miles)		v) Quick charge (time)			
vi) What is the _____ technology?					

___ / 6

2.4 Is the UK ready for _____? (Use data to support your answer).

Yes	No
Why?	

___ / 2

Total Score ___ / 18

Speaking Worksheet




Discussion

Use the two texts (reading and listening) to discuss these questions:

Key Sources:



Reading: Peterson (2021) Statistica (2020) / Gov.UK (2020) / EEA (2020)	Lecture: Watts (2021) Statistica (2020)
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Seminar Questions

- 1)  battery electric vehicles (BEVs).
- 2) Discuss similarities and the differences between the two texts.
- 3) Discuss the  of BEVs.
- 4) Discuss the  industry.
- 5) Summarise your discussion.
(Each person summarises one main interesting point discussed).

Writing Task

Summary

Use the two texts (reading and listening) to write a paragraph on 'the challenges   (BEV)'.

Write 150 words:

Reading ANSWERS

Task 3: Headings

Choose a subheading for each paragraph – one title is not needed.

1	A	A	The rise in electric cars
2	D	B	The challenges for electric cars

ALL ANSWERS ARE INCLUDED IN PAID VERSION...

Listening ANSWERS

Task 2: Lecture Listening

Listen to the lecture on the electric cars and fill in the information below.

2.1 Open Questions

i) What kind of growth has the electric car market seen in the last few years? (Include data)

- *Extremely positive growth over the last few years.*
- *From November 2020, grew by 10% compared to*

ALL ANSWERS ARE INCLUDED IN PAID VERSION...

Electric cars lecture transcript





(C. Watts 2021)

Hello and welcome to this mini lecture on electric cars. The UK electric car market has seen extremely positive growth over the last few years. In fact, from November 2020, the market share of full-electric vehicles known as EVs and Hybrids known as PHEVs, grew by 10% compared to just under 3% the year before. According to Statistica, one out of ...

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

Appendix: PowerPoint Slides

Listen to the lecture and take notes using the PPT slides

<p>The UK electric car market</p>  <p><small>Image: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/618888/ev-charging-station-illustration.jpg</small></p> <p><small>AE Academic English UK</small></p>	
<p>The Tesla 3</p>  <p><small>Image: https://www.tesla.com/en_gb</small></p> <p><small>AE Academic English UK</small></p>	<p>WWW.ACADEMIC-ENGLISHUK.COM</p>
<p>The Nissan Leaf</p>  <p><small>Image: https://www.nissan.co.uk/vehicles/leaf.html</small></p> <p><small>AE Academic English UK</small></p>	
<p>The future of electric cars</p>  <p><small>AE Academic English UK</small></p>	