Lesson plan on English Word Stress



(Image generated using Adobe Firefly)

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Acknowledgement: This lesson plan is supported by a TDG project (led by Dr Chen) with contributions from Dr Han Qianwen, Ms Tian Jingxuan, and Ms Chan Ching Hang Justine

Lesson Topic/Title: Corpus & AI-aided instruction on English word stress

Title of the course where your lesson fits: Pronunciation

Brief rationale behind the lesson design: The lesson is specifically designed for the instruction on English word stress targeting at secondary students. Word stress, as one of key suprasegmental aspects in English pronunciation, have long been considered challenging by learners, particularly learners with lower proficiency levels. For example, in the corpus entitled *The English Speech Corpus with Different Proficiency Levels* (Chen, 2022), inappropriate word stress placement is most frequently found among learners scoring Band 5 to 6. It is worth mentioning that some learners with higher proficiency levels also have this feature. This lesson design attempts to adopt corpus-based and AI-enhanced approaches to address this issue. Based on the four basic steps derived from CBLP, the intertwined use of native corpus and learner corpus is used to raise students' awareness, allow them to notice the word stress patterns used by native speakers and learners, and encourage them to reflect on their own difficulties, while AI tools such as Murf and Poe are used to facilitate students' practice on word stress patterns in both listening and speaking.

Target students: Secondary school students (S3)

Corpora used:

The Speech Corpus with Different Proficiency Levels
 <u>https://corpus.eduhk.hk/english_speech_corpus/</u> (a learner corpus)
 YouGlish: <u>https://youglish.com/</u> (a native speaker corpus)

Non-corpus resources used:

- (1) PowerPoint
- (2) Online videos/audios
- https://www.youtube.com/watch?v=O-sOjBpYJCM
- https://corpus.eduhk.hk/english_pronunciation/index.php/word-stress-teaching-kit/

- <u>https://lml-</u>

learning.eduhk.hk/englishspeechcorpus/ViewTaskPart.aspx?id=15&partid=1&categor yid=4&key=wstr&displayid=15

(3) ChatGPT on Poe: <u>https://poe.com/ChatGPT</u>

- (4) Mentimeter: https://www.menti.com/alghtub7e4h4
- (5) Murf https://murf.ai/
- (6) Worksheets

Lesson duration: double lesson (80 mins in total)

Prior knowledge:

Before the lesson, students have learned:

- (1) International Phonetic Alphabet (IPA) symbols
- (2) some terminologies (e.g., vowel, consonant, syllable)

Learning objectives:

After the lesson, students are able to:

(1) self-identify their own English word stress

(2) use text-to-speech AI tools to generate samples specifically focusing on word stress

(3) use conversational AI tools to generate more examples following different word stress rules

(4) use conversational AI tools to receive feedback on English word stress

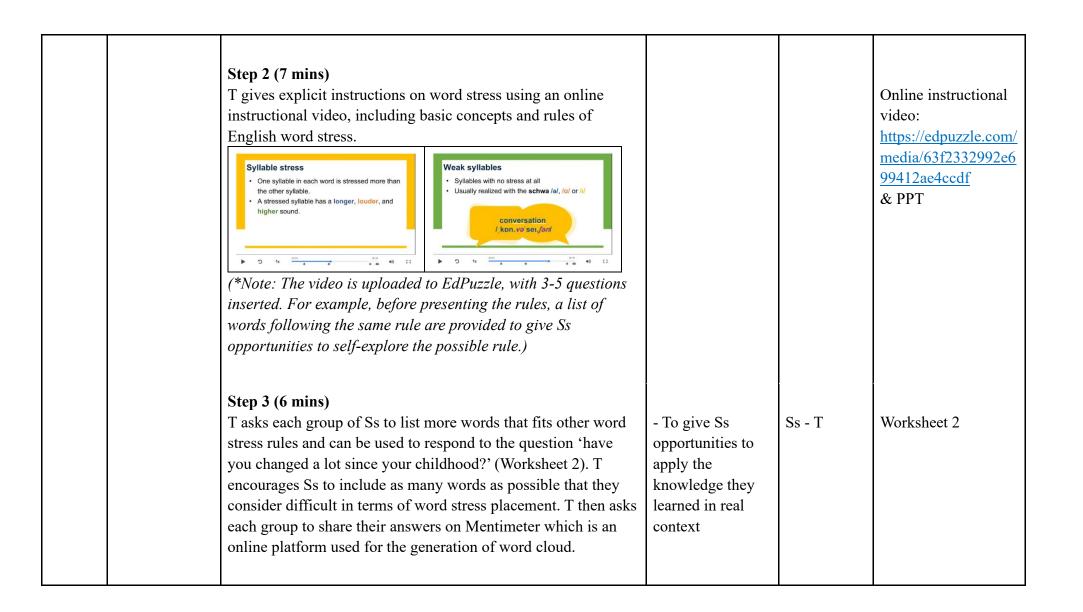
Time	Key stages	Procedures	Purposes	Interaction mode	Teaching resources/materials
7 mins	Stage 1: Testing students' prior knowledge	Step 1 (2 mins) T plays a video clip (0:08-0:18) where a speaker says three sentences containing inappropriate use of word stress and asks Ss to read aloud the sentences and infer what the speaker wants to convey. Image: Converse of the sentences and infer what the speaker wants to convey. Image: Converse of the sentences and infer what the speaker wants to convey. Image: Converse of the sentences and infer what the speaker wants to convey. Image: Converse of the sentences and infer what the speaker wants to convey. Image: Converse of the sentences o	 To spark students' interests in the topic To build up the context for the whole lesson To activate prior knowledge 	T - Ss	Online video: https://www.youtube. com/watch?v=O- sOjBpYJCM & PPT

		 speaker really wants to say and then lets Ss focus on the changed words and read again the sentences. Image: Step 3 (3 mins) T introduces the importance of appropriate use of word stress in daily communication and leads in the focus of the lesson – word stress, in the meantime, emphasizes that the major concern of word stress is the identification of the stressed syllable within a word. 			
27 mins	Stage 2: Engaging students in	Step 1 (8 mins)T then plays an audio file (i.e., Speaker 15 of The SpeechCorpus with Different Proficiency Levels) without showing the	- To familiarize Ss with learners'	T - Ss	Learner corpus (<i>The Speech Corpus with</i>

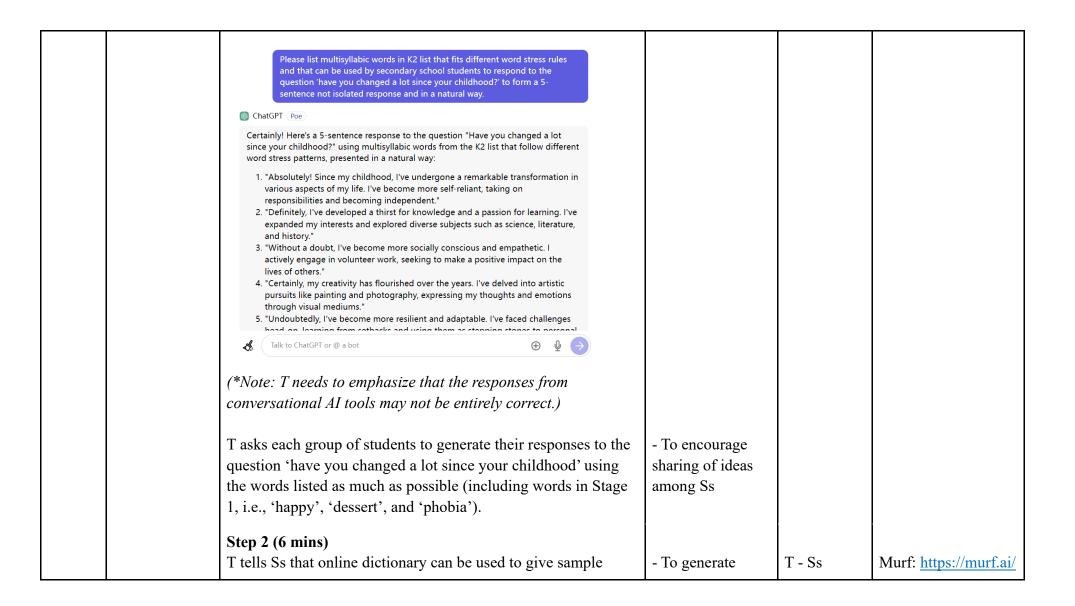
ands-on orpus search	annotation and asks Ss to identify the words which are inappropriately pronounced in terms of word stress. Pronunciation Speaker: 15 Gender: Female IELTS Speaking Score: 5.5 IELTS Speaking Session: Part 1	common features on word stress through the use of corpus	Different Proficiency Levels): <u>https://corpus.eduhk.</u> <u>hk/english_speech_c</u> <u>orpus/</u>
	T demonstrates how to show the annotations for word stress of Speaker 15 using the search function of the corpus (direction: none selection → pronunciation → word stress → word stress → select Speaker 15) Home How To About Browse Search Search Features	- To demonstrate to Ss how to use the corpus	
	Band: NONE SELECTION Category: Pronunciation Step 1: Word stress Step 2: Word stress Step 2: Word stress Yourd stress Yes Step 2: Word stress Yes Yes Step 2: Word stress Yes Yes Yes Yes <th></th> <th></th>		

<text><text><text><text></text></text></text></text>			Native speaker corpus (YouGlish): https://youglish.com/
Step 4 (7 mins) Ss are asked to form in a group of 5 to 6 and perform corpus- based analysis on word stress (completing Worksheet 1).	- To let Ss self- reflect their own	Ss – Ss	Search function of the corpus:

		Worksheet 1 Hands-on corpus search task Use search function and Identify inappropriate use of word stress by Speakers 3, 13, 29, 41 and 66 in The English Speech Corpus with Different Proficiency Levels (https://corpus.eduhk.hk/english_speech_corpus/). (Note: Please just focus on the response to the question 'have you changed a lot since your childhood?'.)			features on English word stress		https://lml- learning.eduhk.hk/en glishspeechcorpus/Se archFeatures.aspx & Worksheet 1
		of word stress or e.g., Speaker 15 Speaker 3 Speaker 13 Speaker 29 Speaker 41 Speaker 66 Step 5 (5 mins) T asks Ss in different demonstrate again the state of the	s inappropriate use not (Y/N) List the words pronounced with inappropriate word stress Viewpoint childhood period nt groups to share their at he use of search function f word stress by Speaker	n to search the			
19 mins	Stage 3: Encouraging students in inductive discovery	inappropriately by the perspectives such as example, 'viewpoint	categorize the words pro he learners in the corpus s the word class and sylla ts' is a compound noun v able of the word 'view'.	based on the able structure. For	- To raise Ss' awareness on English word stress	T - Ss	



		<text><text><text><text><text></text></text></text></text></text>			Mentimeter: https://www.menti.co m/alghtub7e4h4
		T then checks all the words on Mentimeter with Ss.		T - Ss	
Fac und with	age 4: cilitating derstanding th the aid of technology	Step 1 (7 mins) T demonstrates how to use ChatGPT on Poe to generate more ideas as to which multisyllabic words can be included and have ChatGPT indicate the rules the suggested words follow.	 To expose Ss to more examples of multisyllabic words following different rules To reinforce Ss' understanding of the rules 	Ss – Ss	ChatGPT on Poe: https://poe.com/Chat GPT



		pronunciation of individual words. For spontaneous speech, text-to-speech tools can be used to generate sample recordings. T demonstrates the use of Murf by generating recordings of selected words (e.g., childhood) and sentences respectively. Image: The second project for the seco	recordings of native speakers as an exemplar using Murf)		
14 mins	Stage 5: Activating knowledge by putting it into oral production	 Step 1 (4 mins) T invites each group to read aloud their responses and lets Ss select two responses that contain difficult words in terms of word stress. Step 2 (4 mins) T then generates the sample recordings of the two responses 	- To compare different pronunciation of the word stress between learners/themselv	Ss - T Ss - Ss T - Ss	Murf: <u>https://murf.ai/</u>

 and asks Ss to imitate. Step 3 (4 mins) T invites two groups to verbally give their responses using ChatGPT on Poe and share the feedback on the use of word stress with the class. T also asks other Ss to give feedback. Step 4 (2 mins) T recaps the learned content in this lesson. T then assigns take-home task to Ss. 	es and native speakers (both real and AI- generated) - To give Ss chances to appreciate other Ss' performance - To guide Ss to use conversational	Ss - T Ss - Ss	ChatGPT on Poe: https://poe.com/Chat GPT Take-home task
home task to Ss.	use conversational AI tools to receive feedback.		

Worksheet 1

Hands-on corpus search task

Use search function and identify inappropriate use of word stress by Speakers 3, 13, 29, 41 and 66 in <u>The English Speech Corpus with Different Proficiency Levels</u> (https://corpus.eduhk.hk/english_speech_corpus/).

(Note: Please just focus on the response to the question 'have you changed a lot since your childhood?'.)

Speakers	If the speaker has inappropriate use of word stress or not (Y/N)	List the words pronounced with inappropriate word
		stress
e.g., Speaker 15	Y	viewpoint
		childhood
		period
Speaker 3		
Speaker 13		
Speaker 29		
Speaker 41		
Speaker 66		

Worksheet 2

Production task

Please answer the question 'Have you changed a lot since your childhood?' using multisyllabic words following at least THREE word stress patterns with at least 5 sentences.

Hints:

No. of syllable	Rules	Words following the corresponding
/Stress pattern		structure
two-syllable word	compound noun	e.g., viewpoint
three-syllable	compound adjective	e.g., outgoing
word		
long word	with suffix '-ion'	e.g., transformation

Your answer:

Worksheet 3

Take-home task

1. Use Murf to generate a recording of your own or the sample answer

Sample answer to the question 'Have you changed a lot since your childhood?' (with multisyllabic words highlighted)

Looking back at my childhood, it's clear that I've changed quite a bit. When I was younger, I was a happy and curious child, always exploring and asking endless questions. But as I grew older, I became more thoughtful and introverted, burdened by responsibilities like grades and friendships. I also faced challenges like school phobia, but with support from parents, teachers and my friends, I overcame it. It's been a gradual transformation, and sometimes I miss the carefree days of my childhood. Still, I'm excited for the future. Life offers sweet moments, like indulging in a delicious dessert, and I look forward to the adventures it brings.

(Note: Try to include the 'bonus words' to get extra points!)

2. Use conversational AI tools to practice the answer (either your own answer or the sample answer)

Note: Please record yourself while practicing.