## Lesson 3: Detailed Study of English Vowels: Diphthongs \& Triphthongs

## Introduction

In British English, we have 12 pure vowels divided into 5 long vowels and 7 short vowels. In addition, we have 8 diphthongs (gliding vowels) which are a composed of a combination of
 On the other hand, triphphongs are the following diphthongs /eI/, /əI/, /aI/, /əw/, /aw/ +/ə/ as follows: /eıə/, /วıə/, /aIə/, /əモə/, /aซə/.

## I- Diphthongs /'dif0nyz/:

Definition: a diphthong or a gliding vowel is a term used in the phonetic classification of vowel sounds. It refers to a glide or a movement from one vowel to another one in which the first part is more prominent than the last. It involves a change in quality within the one vowel, they are classified according to their ending as follows:
Closing diphthongs end in /ı/ like /eI/, /əI/, /aı/ or in /w/ like /əv/, /av/.
Centering diphthongs end in /ə/ like /ıə/, /eә/, /шә/.

## I-1. Closing Diphthongs:

This category of diphthongs may be placed on the Cardinal Vowel Chart between a starting-point and ending in the space of close position (between mid-close and close position).

### 1.1.1. The diphthong/eI/

Description: the starting-point is /e/ where the glide begins from slightly the mid-close front position and moves in the direction of $/ \mathbf{I} /$ to form the diphthong $/ \mathbf{e} \mathbf{I} /$; there is a slight closing movement of the lower jaw. The lips are spread.


Examples: Ache /eik/, base /beis/, chase /tfeis/, face /feis/, gaze/geız/, make/merk/, safe /seif/. Aim /eım/, Braille /breıl/, fail /feıl/, straight/streit/, veil /verl/, break /breık/, great /greIt/, café /'kæfeI/. Example sets of minimal pairs: Edge /ed3/ - age /erdz/; let /let/ - late /lett/; met/met/ - mate /mert/;

Pen /pen/ - pain /peın/; pepper /'pepə/ - paper /'peıpə/; shed / $\mathrm{fed} /$ - shade / Jeıd/; test /test/ - taste /teist/.
Exercise: Underline the diphthong /eI/ in the following: made, change, may, train, eight, grey.

### 1.1.2. The diphthong/aI/

Description: the diphthong /aI/ begins at a point slightly behind the front open position $/ \mathfrak{a} /$, it is similar to the articulation of $/ \mathbf{N} /$ and moves towards the vowel /I/; /al/ is more extensive than /el/ in which there is more movement in the lower jaw to open position. The lips shift from neutral to loosely spread position.


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Examples: Fly /flai/, die /dai/, mine /main/, hide /haid/, eyes /aız/, fight/fait/, aisle_isle /ail/.
Example sets of minimal pairs: fight /fart/-fate /fert/; bite_byte /bait/-bit /bit/; might/matt/- mate $/ \mathrm{ment} /$.
Exercise: underline the diphthong /aı/ in the following: why, hi, night, five, drive, miles, library.

### 1.1.3. The diphthong /oI/

Description: the gliding vowel /دI/ the tongue begins at a point between the mid-open and open back positions nearer to /s:/ than to / $\mathbf{w} /$ then I tmoves in the direction of $/ \mathbf{I} /$. The tongue movement extends from back to centralised front position. The lips are open rounded for the first element then changing to neural for the second.


Example sets of minimal pairs: all / $\mathrm{o}: 1 /-\mathrm{oil} / \mathrm{\rho} \mathrm{I} /$ /; corn /ko:n/-coin /komn/; roar/ro:/- Roy /roI/.
Exercise 1: try to transcribe the following /oI/: toy, noise, voice, spoilt, pointing, destroyed, poison.

### 1.1.4. The diphthong /as/

This diphthong begins with a vowel similar to /a:/ then there is a large movement to the vowel /w/ in order to get /av/.
This glide towards $/ \boldsymbol{\sigma} /$ begins but is not completed, in which the end of the diphthong is somewhere between mid-close and mid-open. There is a slight lip-rounding in the articulation of this diphthong.


Examples: how /hav/, gown /gavn/, now /nav/, around /ə'ravnd/, couch /kavtf/, plough /plav/.
Minimal pairs: now /nav/ - no /nəv/; mice /mais/ - mouse /mavs/; sand /sænd/ - sound /savnd/.
Exercise: Look up the transcription of the following: Audi, count, ground, foul, flour, mountain.

### 1.1.5. The diphthong/əor/

The beginning of this diphthong is at the central position between midclose and mid-open position which is the schwa / $/$ /, and moves in the direction of $/ \mathbf{\sigma}$. There is a slight closing movement of the lower jaw. The lips are neural for first and slightly rounded for the second element.

 Minimal pairs: must /msst/-most /məचst/; abide /ə'baid/ - abode / ə'bəचd/; whole /həшl/- hill /hıl/.

Exercise: Find the transcription of the words: folio, folklore, load, road, gross, soldier, role, own.

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## I-2. Centering Diphthongs:

### 1.2.1. The diphthong/ıa/

This RP diphthong /Iə/ begins with a position approximately to /I/ in midclose and centralised front position. The glide moves towards/ $/ \boldsymbol{\partial}$ and to more open in final position of the words, as in here hıo/ but not so extensive in mid-position of the word, as in weird/wird/.
The lips are neural with a slight movement from spread to open.


Examples: here /hıə/; near /nıə/; peer_pear /pıə/; zero /'zıərəच/; Algeria /æl'dзıəıə /; mania /'meını/.
Minimal pairs: fear /fıə/-fare /feə/; peer /pıə/-pair /peə/; fierce /fıəs/-face /feıs/; pierce/pıəs/-piece /pi:s/.
Exercise: Find the transcription of the words: hero, sincere, deer, cheer, career, weird, idea, media, material, familiar, year, real, area, beard, period, opinion, previous, medium, million, union.

### 1.2.2.The diphthong/ea/

This RP gliding vowel /eə/ begins with a mid-open front position and moves to more open variety of /ə/ especially in word final position as in there / $\mathrm{\partial e} /$. However, in word-medial position the second element /o/ tends to be neutral as in parent / 'perrənt /.

The lips are neural throughout the diphthong.


Examples: air /eə/, pair /peə/, care /keə/, fair_fare/feə/, where/weə/, there /ðeə/, scarce /skeəs/.
Minimal pairs: spare /speə/ - spear /spıə/; bear /beə/ - beer /bıə/; rear/rıə / - rare /reə/; air - ear.
Exercise: Find the transcription of the following: bare, hair, heir, their, swear, share, various.

### 1.2.3.The diphthong/zo/

This RP diphthong / $\mathbf{\sigma} /$ glides from a tongue position similar to / $\boldsymbol{\sigma} /$ then moves towards the vowel / $\mathbf{\jmath}$. It moves to more the centre when the diphthong occurs in word-medial position during /'djvərı1/. However, it is more open in word final position as in poor / $\mathrm{pvo} /$. The lips are rounded at the beginning then neutral as the glide progresses.


Examples: poor /pшə/, plural/'plvərəl/, pure /pjซə/, cure /kjซə/, endure/in'djซə/, during /'djvərıy/.

Exercise: Transcribe the following words: curious, furious, security, actual, mutual, usual, gradual, influence, valuable.
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## II-Triphthongs /'trif0pgz /:

Definition: a triphthong is a glide from one vowel to another and then to a third, all produced rapidly and without interruption. For example, a slow pronunciation of the word "hour" begins with a vowel quality similar to $/ \mathbf{a}: /$ and goes on towards $/ \boldsymbol{\sigma} /$ then ends with schwa $/ \boldsymbol{z} /$ to get $/ \mathbf{a v z} /$. A triphthong is made up of two vowel sounds, a closing diphthong plus a schwa (diphthong+ schwa= triphthong).

The triphthongs are composed of the five closing diphthongs described before, with schwa/a/


## Performance Exercises

## Task 1.1 practise the difference.

| low | law | toe | tore |
| :--- | :--- | :--- | :--- |
| Joe | jaw | tone | torn |
| yoke, yolk | York | snow | snore |
| boat | bought | hole | hall |
| cold | called | sew, sow | saw |
| bowl | ball | show | shore |

Task 1.2: find the spelling form (orthography) of the following minimal pairs.

| /mvə, mo:/ | /meə/ | /bait/ | /bərt/ |
| :---: | :---: | :---: | :---: |
| /pwo, po:/ | /pea/ | /daI/ | /dəच/ |
| /tvo, to:/ | /tea/ | /flai/ | /fləu/ |
| /bvo, bs:/ | /bea/ | /nait/ | /nəชt/ |
| /foo, fo:/ | /Sea/ | /rait/ | /rəot/ |

## References for further study:

1- Roach, Peter. English Phonetics and Phonology. pp 18-25. Cambridge University Press.
2- Gimson, A, C. Pronunciation of English. pp 32-37. Cambridge University Press.
3- Hancock, Mark. English Pronunciation in Use. pp 44-50. Cambridge University Press.

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## Lecture 4: Detailed Study of English Consonants

## Introduction

In this lesson, we will introduce the properties of English consonants and their force, place, and manner of articulation.

## 1. Consonants /'knnsenants/

Consonant: (n.) (C) it can be defined phonetically as the sound made by a closure or narrowing in the vocal tract so that the airflow is either completely blocked, partially, or restricted with an audible friction. There are 24 consonantal phonemes classified in the table below into two general categories:
A. Those articulations in which there is a total closure or a stricture causing friction. In this class, there is a distinctive opposition between fortis and lenis.
B. Those articulations in which there is a partial closure or an oral or nasal escape of air. Such articulations, typically voiced and frequently frictionless may share many phonetic characteristics with vowels (Gimson, p.149).


IPA table contains the consonant phonemes of the English language

## 2. Properties of English Consonants

A consonant is described in terms of manner and place of articulation and voicing.

### 2.1 Manner of Articulation

Plosive: formed by a blockage of the vocal tract, followed by an explosive release of air. As follows:
1- The CLOSING stage: the articulators move together to form the obstruction of the air breathed in.
2- The COMPRESSION stage: during which the lung compresses the air in the vocal tract.
3- The RELEASE stage: the organs forming the obstruction set apart rapidly, allowing the air to escape abruptly.
There are six stops or plosive consonants in English, as follows: / p, t, k, b, d, g/.
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Fricative: formed by slight contact between articulators, allowing turbulent airflow. There are nine fricative consonants in English. i.e.: /f, v, $\theta, \partial, \mathrm{s}, \mathrm{z}, \mathrm{J}, \mathrm{3}, \mathrm{h} /$.
Affricate: formed by a blockage of the vocal tract like plosives and, followed by a gradual release of turbulent air, like a fricative. For instance: / tf, d3 /.
Nasal: formed by the lowering of the velum, allowing air to flow through the nasal cavity. i.e.: $/ \mathrm{m}, \mathrm{n} /$.
Lateral (approximant): formed by an obstruction of the passage of the airflow in the centre of tongue meanwhile the air flows through both sides of the tongue where obstruction occurs. E.g.: / $1 /$.
Approximant: formed by the constriction of the vocal tract, but with no blockage of the air. $/ \mathrm{w}, \mathrm{r}, \mathrm{j} /$.

### 2.2 Place of Articulation

The following figures represent the major Places of Articulation for English Consonants:


The term place of articulation classifies speech sounds in terms of where in the vocal tract the shape is altered. Hereafter, the main places of articulation of English consonants are shown as:

Bilabial: bilabial sounds are those sounds made by the articulation of the lips against each other. i.e: $/ \mathrm{b}, \mathrm{p}, \mathrm{m}, \mathrm{w} /$. Labio-dental: labiodental sounds are made by moving the upper teeth towards the lower lip. i.e.: /f, v/.
Dental: interdental sounds are made by moving the tip of the tongue between the teeth. i.e.: / $\theta$, ð/.
Alveolar: alveolar sounds are made by moving the tip of the tongue towards the alveolar ridge. $/ \mathrm{t}, \mathrm{d}, \mathrm{s}, \mathrm{z}, \mathrm{n}, \mathrm{l} /$.
Palato-alveolar: sounds are made by pressing the front of the tongue towards the area between the alveolar ridge and the hard palate. Examples of such sounds in English are the following: / $\int, 3, \mathrm{t}_{\mathrm{f}}, \mathrm{d}_{3} /$.
Post-alveolar: is a place of articulation produced with significant raising of the front of the tongue toward the back of the alveolar ridge in a retroflex manner. For example: $/ \mathbf{r} /$.
Palatal: palatal sounds are made by pressing the body of the tongue towards the hard palate. i.e.: / j/.
Velar: velar sounds are made by pressing the body of the tongue towards the velum. i.e.: / $\mathrm{k}, \mathrm{g}, \mathrm{y} /$.
Glottal: glottal sounds are made at the glottis by narrowing in the vocal tract. i.e.: / h /.
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### 2.3. Force of Articulation/ Voicing

With regard to the force of articulation, we use the following terms: fortis (strong) and lenis (weak). In phonetic terms, fortis means an unvoiced sound but it requires more force to be articulated. However, the lenis sounds are voiced sounds but articulated with less force. For example: fortis /p/, lenis $/ \mathrm{b} /$.

## 3. Description of the Articulation of English Consonants

### 3.1. Identification of the consonants /p/, /b/

Those two bilabial sounds are made with total closure using the lips. The soft palate is raised to stop the air from escaping through nasal cavity. /p/ is unvoiced and fortis. /b/ is voiced and lenis. Pay/pei/, bye/bai/.

### 3.2. Identification of the consonants/k/, /g/

Those two velar sounds are made with total closure using the back of the tongue against the soft palate the suddenly release the air.
$/ \mathbf{k} /$ is unvoiced and fortis. $/ \mathbf{g} /$ is voiced and lenis. e.g: can/kæn/, guess/ges/.

### 3.3. Identification of the consonants /t/,/d/



Figure 2:/k/,/g/
Those two alveolar sounds are made with total closure using the tongue blade against the alveolar ridge. Soft palate is raised to stop air from going to nasal cavity. /t/ is unvoiced \& fortis. /d/ is voiced \& lenis. Tie/taI/, do/du:/.
3.4. Identification of the consonants /f/, /v/

Labiodental sounds are made with partial closure in which an audible
friction is heard. They are articulated with the front upper teeth against
lower lip. /f/ is unvoiced \& fortis. /v/ is voiced \& lenis. fit /fit/, vice /vais/.


### 3.5. Identification of the consonants / $\theta /$, / $\mathbf{~ / ~}$

Dental sounds are made with partial closure or narrow opening using the upper front teeth against tongue-tip. The soft palate is raised. The consonant $/ \theta /$ is unvoiced $\&$ fortis. $/ \delta /$ is voiced $\&$ lenis. Thin $/ \theta \mathrm{m} /$, that $/ \partial æ t /$.


### 3.6. Identification of the consonants/s/,/z/

Those alveolar sounds are made with partial closure. The soft palate is raised to stop air from going thru nasal cavity. The tip of the tongue contacts alveolar ridge. $/ \mathbf{s} /$ is voiceless \& fortis. /z/ is voiced \& lenis. See /si:/, zoo/zu:/.


### 3.7. Identification of the consonants / $/$ /, /3/

Fricative consonants are formed by a narrowing of the air passage then the air escapes making a kind of hissing sound with an audible friction. The blade of the tongue contacts the palato-aveolar slightly. The soft palate is raised. / $\mathbf{~ /}$ is unvoiced \& fortis. /3/ is voiced \& lenis. Shake / Jerk/, beige /berz/.


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### 3.8. Identification of the consonants / $\mathrm{t} / /$, / $\mathrm{d} 3 /$

The English affricative sounds $/ \mathbf{t} \mathbf{f} /$ and $/ \mathbf{d z} /$ are described as a transition from the plosives $/ \mathbf{t}, \mathbf{d} /$ into the fricatives $/ \mathbf{\int}, \mathbf{3} /$ rapidly to get one phoneme. $/ \mathbf{t} \mathbf{f}$ / is unvoiced \& fortis. /d3/ is voiced \& lenis. Chief/tfi:f/, Jack /dzæk/.


### 3.9. Identification of the consonant/h/

This consonant is articulated with the narrowing of the airflow in glottis. It is a kind of breathing out with an audible friction in the vocal cords. /h/ is a voiceless when produced alone, but voiced when followed by a vowel. Example words: Heat /hitt/, who /hu:/, perhaps /pə'hæps/, adhere /əd' эә/.


### 3.10. Identification of the consonant $/ \mathrm{m} /$

In the nasal consonants the air escapes through nose. To do this, the soft palate is lowered to let air go to nasal cavity. $/ \mathbf{m} /$ is articulated with closed lips (bilabial) then air goes through nasal cavity. /m/ is voiced. Mike /mark/.


### 3.11. Identification of the consonant /n/

In the nasal sound $/ \mathrm{n} /$ the velum is lowered so that the air can escape thru the nasal cavity. /n/ is articulated with tongue tip with alveolar ridge then air is release via nasal cavity. /n/ is voiced. Nile/naıl/, snow/snəv/, fallen /'fo:lən/.

### 3.12. Identification of the consonant $/ \mathrm{y} /$

This voiced nasal sound is made with the back of the tongue against velum. e.g.: Ring /rıy/, link /lıŋk/, singer /'siŋə/, hanger /' æyə/, hunger /'h^ygə/

### 3.13. Identification of the consonant /l/



This voiced alveolar lateral consonant is articulated with tongue centre and the alveolar ridge in which the air flows around both sides of the tongue.

There are clear /l/ as in let/let/ and dark /l/ as in milk [mik], little [ ${ }^{\prime} \quad$ itk].

### 3.14. Identification of the consonant /r/



This post-alveolar consonant is pronounced with the articulators approach each other without a plosive or fricative sound as an approximant. The tip of the tongue approaches further back to the alveolar ridge somehow like $/ \mathbf{t}, \mathbf{d} /$. the lips are slightly round. /r/ is voiced. Right/ratt/, firm /fs:m/, writer /'raits/.


### 3.15. Identification of the consonant /w/

This glide or semivowel is made like front close vowel /u:/ but it is very short. This bilabial approximant is articulated with rounded lips. /w/ \& /j/ never occur in word final position. e.g.: waste /werst/, require /rı'kwaıə/.


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### 3.16. Identification of the consonant / $\mathrm{j} /$

This glide or semivowel is made like front close vowel /i:/ but is very short. This palatal approximant is articulated with the back of the tongue raised to the velum (soft palate). /j/ is voiced. Yes/jes/, tube/tju:b/, new/nju:/.


## 4. Time for practice

Task 1: Mention the consonant sounds described and their Voicing, Place, Manner of Articulation (VPM): a- The vocal cords vibrate. The soft palate is raised. A narrowing is formed between the tip and the blade of the tongue with alveolar ridge. A friction occurs.
b- The vocal cords do not vibrate. The soft palate is raised. A complete closure is made between the blade of the tongue and the alveolar ridge. The front of tongue is raised towards the hard palate. The closure is released slowly with a friction heard.
c- The vocal cords vibrate. The soft palate is lowered. A complete closure is made by the lips. The closure is released abruptly.
Task 2: Transcribe the words then write out the common sound in the words:
1- Chest, cheap, chain, attach, fetch, wretch, question, suggestion, century, nature $\qquad$
2- Job, juice, eject, major, magic, pigeon, fragile, adjacent, exaggerate, judge
3- Thy, thou, though, clothes, leather, feather, worthy, breathe, smooth
Task 3: Find two minimal pairs for each consonant sound of the following:


Task 4: Find the spelling form of the following:




|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |











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## Lecture No. 5:



## What is phoneme?

A phoneme is the smallest sound that can make a difference in meaning. In phonetics terms, it is any of the perceptually distinct units of sound in a specified language that distinguish one word from another. For example, the word car changes to far if you change the phoneme $/ \mathbf{k} /$ to /f/. There are 44 phonemes in standard British English (RP). Some of them may be realized differently or have a variety of allophones. Therefore, the phoneme is "the smallest distinct sound unit in a given language".

## What is allophone?

An allophone is any of the various phonetic realizations of a phoneme, which do not contribute to distinctions of meaning. For example, $/ \mathrm{p} /$ in $\mathbf{p i n} / \mathbf{p} \mathbf{m} /$ is aspirated $\left[\mathbf{p}^{\mathbf{h}} \mathbf{I n}\right]$ and $/ \mathrm{p} /$ in spin /spm/ is unaspirated $[\mathbf{s p m} \mathbf{n}]$. The first one $\left[\mathbf{p}^{\mathbf{h}}\right]$ is an allophone of the phoneme $/ \mathrm{p} /$.

## Phonemic Transcription

Phonemic is a transcription showing the pronunciation of words using a simple set of symbols representing phonemes. It is a transcription usually found in the dictionary which is used between slashes. E.g.: proposal / prə'pəઇzl! /, standard /'stændəd/, learn /lз:n/

## Phonetic Transcription

Phonetic transcription is a transcription with more details about the pronunciation of words, used between two square brackets. In this kind of transcription allophones are represented. For example, in [prə'phəuzł] the allophone [ $\mathrm{p}^{\mathrm{h}}$ ] is aspirated and [ $\downarrow$ ] is dark \& syllabic.

## What is aspiration?

Definition of aspiration: it is when the production of $/ \mathrm{p} /, / \mathrm{t} /, \mathrm{k} / \mathrm{is}$ followed by an audible plosion (burst of noise) in the post release phase, producing a sound like $h$ represented as [ ${ }^{\mathrm{h}}$ ].

## Examples of allophones:

1. Plosives: the Voiceless Fortis Plosives / $\mathrm{p}, \mathrm{t}, \mathrm{k} /$ are aspirated $\left[\mathrm{p}^{\mathrm{h}}, \mathrm{t}^{\mathrm{h}}, \mathrm{k}^{\mathrm{h}}\right.$ ] when initial in a stressed syllable. However, they are unaspirated in final position or when preceded by /s/.

| E.g.: party ['p ${ }^{\text {a atit }}$ ] | table [ 't'erbł] | concert (n) [ $\mathrm{k}^{\mathrm{h}} \mathrm{Dnsst}$ ] | appear [ ${ }^{\prime} \mathrm{p}^{\mathrm{h}}{ }^{\text {¢ }}$ ] ${ }^{\text {a }}$ |
| :---: | :---: | :---: | :---: |
| part | stable |  |  |

2. Lateral: the English alveolar lateral phoneme /l/ has three main allophones:
a. Clear [1] with a relatively front resonance before vowels and /j/ or when it is intervocalic E.g.: lead [li:d] follow ['foləu] lose [lu:z] sailor ['serlə] believe [bı'li:v]
b. Dark [ $\mathbf{\downarrow}$ ] is articulated with a relatively back vowel resonance, final after a vowel ${ }^{(1)}$, before a consonant preceded by a vowel ${ }^{(2)}$ and as a syllabic sound followed by a consonant ${ }^{(3)}$.
3. Feel canal pearl call well all
4. Help salt cold ............... milk film .............. elbow
5. Apple middle $\qquad$ eagle $\qquad$ table trouble $\qquad$ able
c. Voiceless [ [ ] ] the voiced phoneme /l/ becomes voiceless when it is preceded by accented $/ \mathbf{p}, \mathbf{k} /$ E.g.: class [klass] clap [klæp] clean [kliin] place [plers] pleasure ['plezə] please [pliiz]

## Exercise for practice:

Exercise 1: Transcribe phonetically and phonemically the following words

| Words | Phonemic transcription | Phonetic transcription | Words | Phonemic transcription | Phonetic transcription |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pile | $\ldots$ |  | Knight |  |  |
| Pearl | ..................... |  | Knee |  |  |
| Penalty |  |  | Kingdom |  |  |
| Pursue |  |  | Knowledge |  |  |
| Prepare |  |  | Question |  |  |
| Purchase |  |  | Queen |  |  |
| Pure |  |  | Scape |  |  |
| Council |  |  | Tension |  |  |
| Kangaroo |  |  | Towards |  |  |
| Kitten | ...................... |  | Tyranny |  |  |
| Kettle | ..................... |  | Today |  |  |
| Keen |  |  | Tertiary |  |  |

Exercise 2: Convert the following transcribed passage into English spelling form
[ar'hævent got a Ka:r at ס̌a'məumənt | mar ká: war'staulan la:st'fraider |ar left it at da'sterfan o:l dei and wen ai got bæk in ठiti:vinig | it had'vænIf | ar haup


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$\qquad$
$\qquad$



[^0]:    CONsonants $/ \mathrm{p} / \mathrm{pen} \quad / \mathrm{b} / \mathrm{bad} \quad / \mathrm{t} /$ tea $\quad / \mathrm{d} / \mathrm{did} \quad / \mathrm{k} / \mathrm{cat} \quad / \mathrm{g} / \mathrm{got} \quad / \mathrm{t} / \mathrm{chin} \quad / \mathrm{d}_{3} / \mathrm{June} \quad / \mathrm{f} / \mathrm{fall} / \mathrm{v} / \mathrm{van} \quad / \theta /$ thin
    

[^1]:    The powerpoint presentations https://vk.com/doc391335396_455708797
    are downloadable from http://filecloud.io/gr3tijcom

