Mfantse Year 1

# SECTION

# SHARING IDEAS AND ORAL INTERPRETATION















## ORAL CONVERSATION Phonology (Speech Sounds of a Ghanaian Language)

## **INTRODUCTION**

Dear learner, you are welcome to this section which discusses the foundation of language (speech sounds). You will be introduced to the concepts of vowels and consonants of your language of study and how speech sounds are described (parametre). It will focus on where the speech sounds occur in words of a Ghanaian language. For example, where vowels and consonants can occur in a word of a Ghanaian language such as initial position, medial position, or final position of a word. Again, Dear learner you will be introduced to the distribution of vowels and consonants in their language, aiding them to form meaningful words and facilitate effective speaking and reading in the language. This section is essential for learners not only in the context of Ghanaian language studies but also to establish links with related subjects such as English and other languages. This section equips you with foundational knowledge and functional understanding of speech sounds and their role in language learning. In summary, you should be able to identify, explain, produce, and label vowel charts and consonant tables of your language of study.

#### After this section, you should be able to:

- 1. Describe the vowels of a Ghanaian language using the right parameters (e.g., lip posture, tongue height and part of the tongue).
- 2. Describe the consonants of the Ghanaian language using the right parameters (e.g., voicing, place of articulation and manner of articulation).
- 3. Explain the distribution of vowels of the Ghanaian language (e.g., word initial, medial and final).
- 4. Explain the distribution of consonants of the Ghanaian language (e.g., word initial, medial and final).

#### Key ideas

Production refers to the making or saying of a speech sound in language. Speech sound is a sound used in the formation of words for human communication. The production of speech sound involves obstruction which is the interruption of free flow of air during production of speech sounds. Sounds are distributed in languages and this refers to the place or position in a word where a sound can appear. Sound involves airflow which is a mass movement of air that is meant for the production of speech sounds. Another term for it is *airstream*.

## **TYPES OF SPEECH SOUNDS**

Speech sounds can be grouped into two main types, namely vowels and consonants. It is the combination of these two types of sounds that produces words. In other words, all words are made up of individual speech sounds. For examples, the word *pan* consists of three individual speech sounds, that is, /p/, /a/, /n/. The sound /a/ is a vowel, whereas the sounds /p/ and /n/ are consonants. In the following topics we discuss both vowels and consonants focusing on how each is produced in a Ghanaian language.

## The concept of vowel

The concept *vowel* refers as a speech sound in which production there is a little or no obstruction of the flow of air in the oral cavity. In other words, a speech sound which when being produced the air is not obstructed or it is minimally obstructed in the oral cavity is referred to as a vowel. Since in their production there is no or very little obstruction of airflow, vowels are comparatively heard louder when they are produced. Vowels are very important part of words. There cannot be a word without a vowel or vowel-like sound. This important role vowel plays in a word will later on in your second year be discussed when we are talking about the *syllable*.

#### **Description of vowels**

Dear learner, in describing vowels of a Ghanaian language, there are certain properties we use. These properties are often termed *parametres*. Parametres simply refer to the characteristics that a vowel possesses. The main parametres used in describing vowels are the tongue height, lip posture, and part of the tongue used during the production of the vowel sound. In addition to the three, there is a fourth parameter called advancement of the tongue root in some Ghanaian languages such as Akan. Let us begin the discussions of these parameters.

#### Lip position/posture:

The parametre lip posture is used to determine the position your lips assume when you are producing a vowel. So, at this level, the lips assume two main postures or positions, namely rounded or unrounded. That is, whether the lips are rounded or they are not rounded when a vowel sound is being produced. Based on this posture of the lips, we can divide vowels of a Ghanaian language into two, namely **'rounded'** and **'spread/unrounded.'** Some examples of rounded vowels are /u, o, ɔ/. examples of unrounded vowels, on the other hand, are /i, e, a/.

#### Activity

At this point, produce rounded and unrounded/spread vowels of your Ghanaian language of study.

#### Tongue height/Height of the tongue:

This refers to the position of the tongue in reference to the root of the mouth when producing vowel sounds. It is assumed that when we are producing vowels, the mouth opens when we drop the jaw. This can be **high**, **mid**, or **low**. When we drop our jaws to the lowest possible position, the vowels produced in this way are referred to as low vowels. Examples of low vowel is /a/, and in some Ghanaian languages [æ]. When we open our mouth wide enough but not as low as when producing low vowels, then the vowels we produced are termed mid vowels. Some examples of mid vowels in a Ghanaian language are /e, o/. In producing high vowels, thereby allowing enough air to flow through the oral cavity. Some examples of high vowels in a Ghanaian language are /i, u/.

#### Activity

Begin practicing the production of vowels in your language of study focusing on how high or how low you raise your jaws or open your mouth.

#### Part of the tongue:

This parametre refers to the area of the tongue where the vowel sound is produced. It is assumed that when we are producing vowels, some parts of the tongue move. We cannot easily feel this movement though. Three parts of the tongue are assumed to be involved when a vowel sounds is being produced. These parts are the front part, middle part, and back part. Based on that, the parametre gives us three classes of vowels, namely **front, mid,** and **back** vowels. In producing front vowels, it is the front part of the tongue that moves. Some examples of front vowels of a Ghanaian language are /i, e,  $\varepsilon$ /. For the production of mid vowels, the middle of the tongue is assumed to move. Therefore, the following vowel is an example of a mid-vowel: /a/. For back vowels, on the other hand, as the name suggests, it is the back of the tongue that is involved in their production. Some examples of back vowels of a Ghanaian language are: /u, o, o/.

#### Activity

Practice how to produce vowels of your language of study with focus on the part of the tongue.

Having finished discussing the main parametres we use in describing vowels of a Ghanaian language, there is a fourth parametre as mentioned earlier in this sub-strand which is not common among Ghanaian languages. This parametre is advancement of the tongue.

## Advancement of the tongue root (ATR): (Please, discuss only if applicable in your language)

This parametre, which is prominent in a few Ghanaian languages including Akan, Dagbani, etc. It is used to determine the position the tongue root assumes when a vowel is being produced. By this parametre, we try to find out if there is tension or pressure on the tongue or not during production of vowels. When a vowel is produced with pressure on the tongue thereby causing the tongue root to draw back, we say that vowel is produced with Advanced Tongue Root (ATR) i.e. (+ATR) vowels. When vowels are produced with the tongue root in its natural neutral position, we label those vowels are Unadvanced Tongue Root i.e. (-ATR) vowels. Some examples of (+ATR) vowels are: /i, e, u, o/, and examples of (-ATR) vowels are /1,  $\epsilon$ ,  $\sigma$ /.

Produce all the vowels of language Ghanaian language of study paying attention to the movement of your tongue root to distinguish advanced tongue roots (+ATR) from unadvanced tongue root (-ATR) vowels.

#### Activity

Complete the table using the parametres you have learnt for describing a vowel

Vowel	Lip Posture	Tongue Height	Part of the tongue
/i/	spread	High	Front
/e/			
/u/			
/ɛ/			
/၁/			
/o/			
/a/			

Having discussed the nature of vowel sounds and the parametres used in describing the vowel sounds of your language, we now focus our attention on the production of consonants.

## The concept of consonant

As was mentioned earlier in the section, consonant is another type of speech sounds apart from vowel. The concept consonant refers to a speech sound in which during production the breath, which we have termed airflow, is at least obstructed. Based on this explanation, we can contrast vowel and consonant by saying that while in the production of vowel there is very minimal or no obstruction of airflow, there is significant obstruction of airflow when producing consonants. We combined vowels and consonants form a word.

#### **Description of consonants**

Se yepe de yekyerekyere nkonsonante no su a, yewo akwan ahorow bi a yefa do ye. Akwan ahorow ebiasa a yefa do kyerekyere nkonsonante no su no nye: bea a yeye nnyegyee no, mbre yesi ye nnyegyee no na meneba ne gyinabew. Yedze mfatoho a ofata bekyerekyere akwanhorow ebiasa yi mu biara mu.

#### Bea a yɛyɛ nnyegyee no:

Iyi yɛ bea a kasa mfafakuwa ebien hyia wɔ ber a yɛreyɛ konsonante ahorow no. Mbea a yɛyɛ Mfantse kasa nkonsonante ahorow nye anofamfa, ano-batase, seekyir, anomu nkurii dzendzen, anomu nkurii bɛtɛɛ, menmu na dze ɔkeka ho. Mbea ahorow no mu bi na odzidzi do yi.

- *Anofafa:* Dɛm ngyegyeeɛ yi ne yɛ mu no, hɛn anofamfa sor na famu no ka bɔ mu. Mfatoho: /p, b, t, d, m, k/.
- *Se-ekyir:* Sɛ yɛreyɛ se-ekyir nkonsonate a, tɛkyerɛma no ano ma no ho do kɔ se sor dze no ekyir . mfatoho /l, r, t, d, s, n/.
- *Ano-batase:* Dem ngyegyee yi ne ye mu no, anofamfa a swo famu no ma no ho do kehyia se a swo sor no. Mfatoho /f/.
- Anomu nkurii dzendzen: Yɛreyɛ dɛm nyegyee yi a, tɛkyerɛma no ne finimfin ma no mu do kɔ anomu nkurii dzendzen hɔ. Mfatoho: /j/.
- *Anomu nkurii betee:* Se yereye dem nyegyee yi a, tekyerema no ekyir twe no ho ko anomu nkurii betee ho. Mfatoho /k, g, ŋ/.

#### Activity

Provide examples of Ghanaian languages word that begins with each of the places of articulation you have learned.

#### Mbrɛ yesi yɛ ngyegyee no:

Iyi kyerɛ kwan a kasa mfafakuwa no fa do dandan mframa a ofin hɛn horɔhorɔ mu ba no ber a yɛreyɛ nkonsonante ahorow no. Yɛwɔ akwan ahorow a kasa mfafakuwa no fa do dandan mframa no berɛ a yɛreyɛ nkonsonante no. Nkonsonante no bi ne yɛ mu no, kwan a ɔda anomu no mu tow prɛkopɛr ma mframa no ka ekyir. Afei, mframa no dze ahoɔden pue prɛkopɛr. Akwan a yɛfa do yɛ nkonsonante no mu bi na odzidzi do yi: egyinae, nkyermu, egyinae-nkyermu, hwenmu, nkyɛnmu, mbobɔe nye dza ɔkeka ho. Dza odzidzi do yi yɛ akwan ahorow a wɔfa do yɛ nkonsonante no nye no mu biara ho mfatoho.

- *Egyinae*: Dε mbrε dzin no kyerε no, dεm nkasafua yi ne yε mu no, hεn anomu kwan na dza ɔda hɛn hwenmu no tow. Mframa no begyina ekyir dze ahoɔdzen pia ntowmu no ma obue prɛkopɛr. Mfatoho: /p, b, t, d, k, g,/ Hwenmu dze no so nye /m, n/.
- *Nkyermu*: Dɛm nkonsonante yi ne y*ɛ mu no, anomu kwan no nnsiw koraa mbom ɔyɛ* tseaa ma mframa no dze ahokyer pue. Mfatoho: /f, s, ∫ /.
- *Egyinae-nkyermu:* Iyi mu no, su ebien na oda edzi, Mframa no dzi kan gyina ana ekyir no mframa no dze ahokyer epue. Mfatoho: /tʃ/ /ʤ/.
- *Tɛkyerɛma ne nkyɛnmu:* Dɛm nkonsonante yi ne yɛ mu no, tɛkyerɛma no ano no ma noho kɛtar se-ekyir hɔ. Afei tɛkyerɛma no ne nkyɛn nkyɛn no ba famu ma mframa no fa hɔ pue. Mfatoho: /l/.
- *Mbobse*: Iyi ne yɛ mu no, tɛkyerɛma no ano no kɛtar se-ekyir. Afei, mframa no pia ntowmu no ma ma tɛkyerɛma no pempem se-ekyir ntaataado. Mfatoho /r/

#### Meneba ne gyinabew

Esuafo, yɛbea a ɔtɔ do ebiasa nye meneba ne gyinabew wɔ hɛn anomu. Sɛ yɛreyɛ nkonsonante, hɛn meneba mu nhoma no da su ebien edzi. Ngyegyee no bi wɔ hɔ a, ne yɛ mu no, nhoma no wosow na bi so wɔ hɔ a, ɔnnwosow. Sɛ ɔwosow a, yɛka dɛ ngyegyee no mu piw anaa ɔpo. Sɛ annwosow dze a, ɔno yɛdɛ no mu mmpiw anaa mmpo. Nkonsonante a no mu piw anaa ɔpo: /b, g, m, d / Nkonsonante a no mu mmpiw anaa ɔmmpo: /f, s, p, t, k,  $\int$ /

- **1a.** Watch a YouTube video on how speech consonants sounds are produced. Please click here: https://www.youtube.com/watch?v=dfoRdKuPF9I.
- **1b.** After watching the video, practise articulating all consonants by placing your forefinger at your larynx in front of your neck as you mention the consonants, and determine which of them are voiced and which ones are voiceless.
- **1c.** Discuss the content in class based on the three parametres for describing consonants in your Ghanaian language of study.

## Sound distribution

**Ngyegyee no dwumadzi wo nsɛntəw mu :** Iyi kyerɛ kasafua bi ne beebi a ngyegyee bi tum hyɛ. Kasa biara wo na kasafua biara ne beebi a mbra ma ngyegyee bi kwan ma otum hyɛ. Nkasafua ne mbea ebiasa a ngyegyee tum hyɛ a onoara so nye no dwumadzi nye **enyim**, **finimfin** na **ewiei**.

Ma yenhwe Mbaawor no dwumadzi.

#### Baawor no dwumadzi

Baawor no dwumadzi yɛ bea a baawor bi tum hyɛ wɔ kasafua bi mu. Bi tum ba kasafua ahyɛse, finimfin anaa kasafua ewiei. Sɛ bawor hyɛ kasafua bi ase a, yɛse odzi dwuma wɔ kasafua enyim. Sɛ ɔwɔ finimfin so a, yɛse odzi dwuma wɔ kasafua no finimfin. Sɛ owie kasafua no so a, yɛse odzi dwuma wɔ kasafua no ewiei. ɔda edzi dɛ kasa biara wɔ mbrɛ no mu ngyegyee no dwumadzi tse. Hyɛ no nse dɛ ngyegyee no bi tum dzi dwuma wɔ kasafua ahyɛse, finimfin na ewiei. Mfatoho:

- **1. a**sem
- **2.** tam
- 3. asaaba

Mfatoho 1 mu no, /a/ hyɛ kasafua no ase ntsi yɛka dɛ odzi dwuma wɔ kasafua no enyim. Mfatoho 2 mu no, /a/ wɔ kasafua no finimfin ntsi yɛka dɛ odzi dwuma wɔ kasafua no finimfin. Mfatoho 3 mu so, /a/ na owie kasafua no ntsi yɛse odzi dwuma wɔ kasafua no ewiei.

#### **Activity 1**

- **a.** List all the vowels in your Ghanaian language of study in the table below.
- **b.** For each vowel provide a corresponding word in your language that begins with the vowel.
- **c.** Share with your colleague your observation on the answers you provided regarding which vowels cannot occur at word-initial position.
- d. The pair should present their observations for class discussion.

**NB:** It is important to note that the vowels to be listed are the phonetic vowels (vowels we speak) and not orthographic vowels (vowels we write).

Vowel	Word-initial
e	

- 1. List all the vowels in your Ghanaian language of study in the table below.
- 2. For each vowel provide a corresponding word in your language in which the vowels occur in the middle.
- **3.** Share with your colleague your observation on the answers you provided paying attention to which vowels cannot occur at word-medial position.
- 4. The pair should present their observations for class discussion.

Vowel	Word-medial
a	

- a. List all the vowels in your Ghanaian language of study in the table below.
- **b.** For each vowel provide a corresponding word in your language that ends with the vowels.
- **c.** Share with your colleague your observation on the answers you provided paying attention to which vowels cannot occur at word-final position.
- d. The pair should present their observations for class discussion.

Vowel	Word-final
e	

### **Consonant Distribution**

The concept consonant distribution simply refers to the position in a word where a consonant can occur in a particular Ghanaian language. A consonant that occurs at the beginning of a word is referred to as *word initial* consonant. When a consonant occurs at the middle of a word, we refer to it as *word medial* consonant. When a consonant occurs at the end of a word, we refer to refer to it as *word final* consonant. Let us note that some consonants can occur in all positions of a word. For example, in some Ghanaian languages, the consonant /m/ can occur in the three positions in a word.

In the following activities, we will consider consonants of a Ghanaian language and the position the consonants can occur in a word.

- 1. List all the consonants in your Ghanaian language of study in the table below.
- 2. For each consonant provide a corresponding word in your language that begins with it.
- **3.** Share with your colleague your observation on the answers you provided focusing on consonants that cannot occur at word-initial position.
- **4.** The pair should present their observations for class discussion. (Provide a table that reflects all consonants of your Ghanaian language of study).

**NB:** Please, note that the consonants to be listed are the phonetic consonants (spoken consonants) and not orthographic consonants (written consonants).

Consonant	Word-initial
p	
b	
t	
d	
k	
g	
f	
m	
n	
W	
S	

- 1. In pairs, list all the consonants in your Ghanaian language of study in the table below.
- 2. For each consonant provide a corresponding word in your language in which the consonants occur in the middle.
- 3. Share with your colleague pairs your observation on the answers.
- 4. The pair should present their observations for class discussion.

Consonant	Word-medial
р	
b	
t	
d	
k	
g	
f	
m	
n	
W	
S	

- 1. In your groups list all the consonants in your Ghanaian language of study in the table below.
- 2. For each consonant provide a corresponding word in your language that ends with the consonants.
- 3. Share with another group your observation on the answers.
- 4. The group should present their observations for class discussion.

Consonant	Word-final
p	
b	
t	
d	
k	
g	
f	
m	
n	
W	
S	

## **REVIEW QUESTIONS**

- 1. Vowels and consonants are speech sounds, in your own words explain two ways in which they differ.
- 2. Using the three parametres, describe each of the following vowels of your language of study: /o/, /i/, /ε/, and /ɔ/.
- **3.** Using the parametres place of articulation, manner of articulation, and voicing, how do you describe the following consonants? /f/, /g/, /m/, /t/.
- 4. Draw a table similar to the one below and provide examples of words of your Ghanaian language of study in the positions in which vowels can occur.

Vowel	Word initial	Word medial	Word final

5. Draw a table similar to the one below and provide examples of words of your Ghanaian language of study in the positions in which consonants can occur.

Consonant	Word initial	Word medial	Word final

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Consonant	Word initial	Word medial	Word final

## **EXTENDED READING AND RESOURCES**

Dolphyne, F. A., (2006). *The Akan (Twi-Fante) language: Its sound systems and tonal structure*. Accra: Woeli Publishing Services.

Yule, G. (2010). *The Study of Language (4th ed.)*. Cambridge: Cambridge University Press.

Organs of speech: https://youtu.be/lg9RkazFZLk?t=378.

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