

Teaching with DART



DART

Digital Access and Resilience in Texas

Housekeeping



Presented by:
Dr. Glenda L. Rose
Glenda.Rose@GREATConsultants.net
Grose@CommunityAction.com

Welcome and Introductions



PresenterMedia Subscription Stock Image

1. My name is...
2. I teach
3. It's a _____ type of class.
(General ESL, ESL for Internationally Trained Professionals, Integrated EL Civics, Workplace literacy, etc.)

Objectives

- Describe what it feels like to have low literacy skills.
- Identify challenges in teaching digital literacy.
- Identify the purpose and background of DART.
- Identify the purpose, audience, content, and lesson structure of the DART curriculum.
- Explain how to access the DART curriculum.

Challenges Teaching Technology

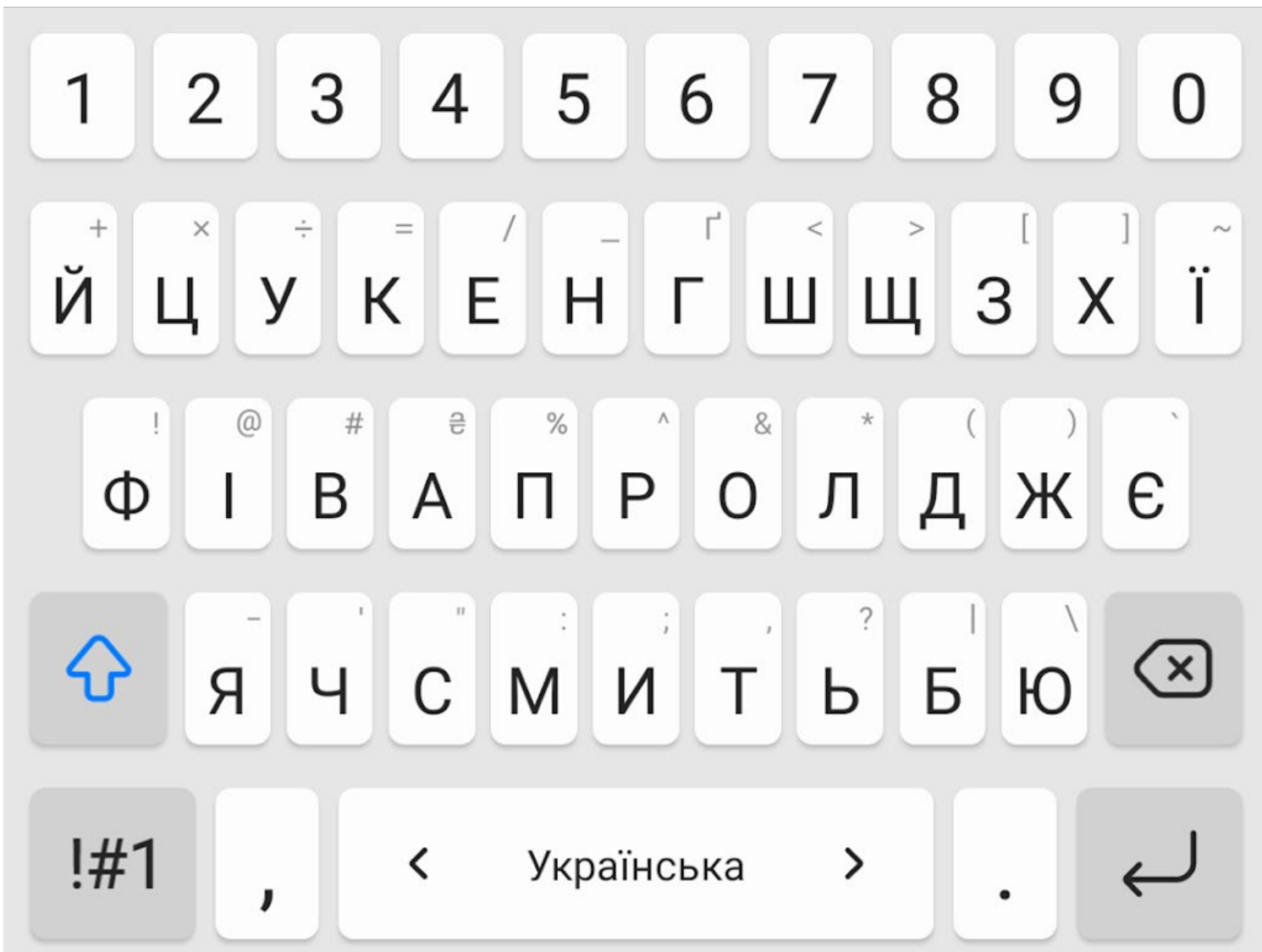
Think-Pair-Share

What are some challenges you've faced teaching digital literacy?



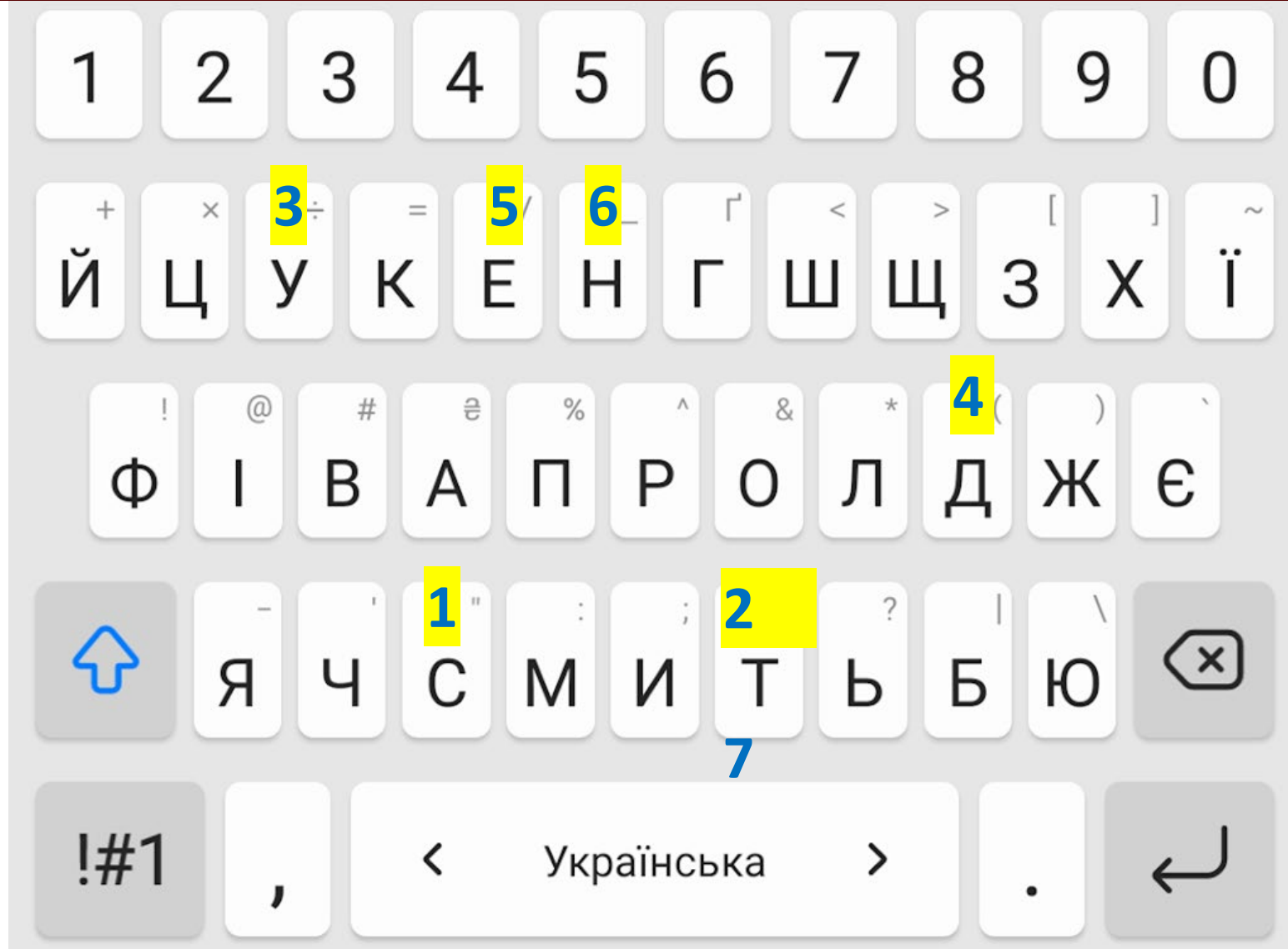
Storyblocks Subscription Stock Image

How Does Low Literacy Feel?

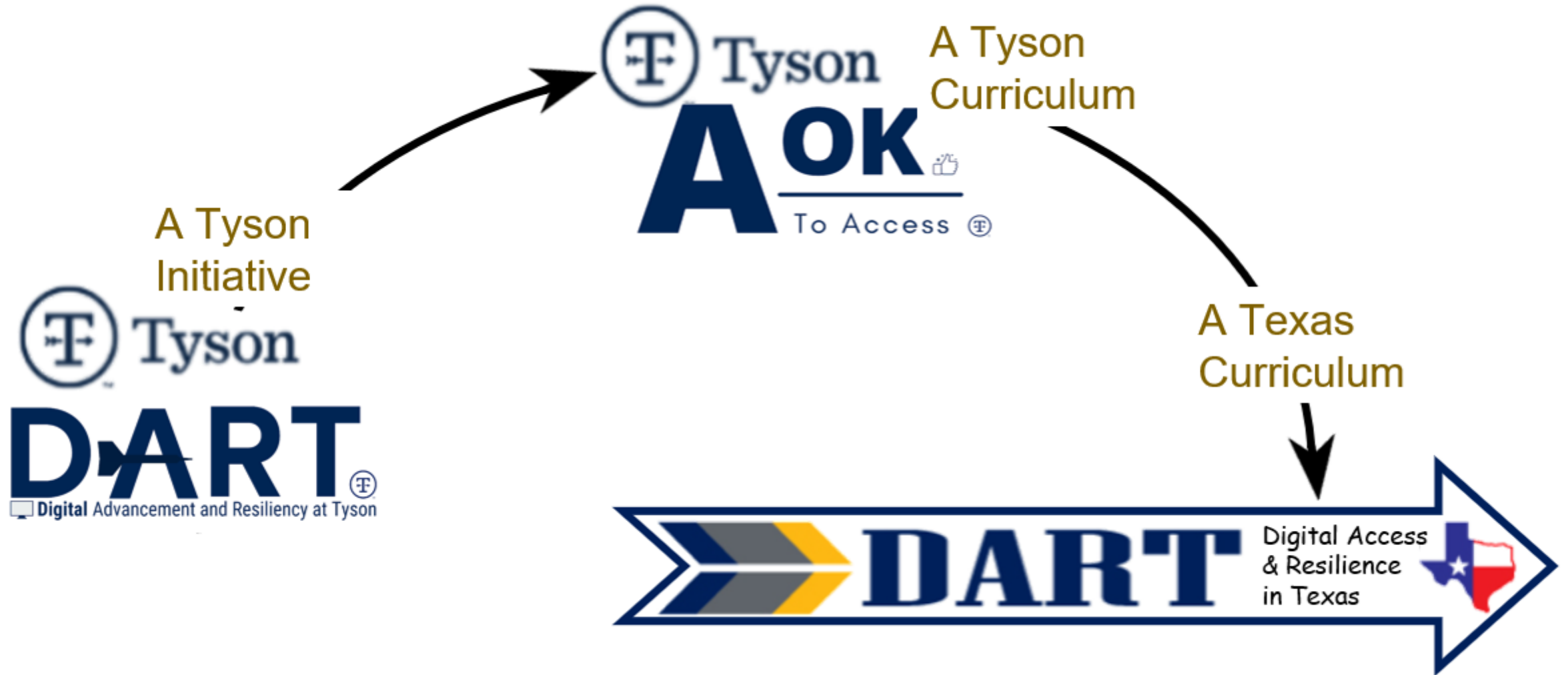


- Imagine you need to complete a form – in Ukraine.
- You need to type **STUDENT** on the form.
- Work with a partner to decide what you would type!

STUDENT = С Т У Д Е Н Т
1 2 3 4 5 6 7



History of DART



Introducing the Texas DART Curriculum



A Foundational Digital Literacy
ESL Curriculum



Glenda Rose and Denise Guckert

Version 1.0
January 2023

Accessing the Curriculum

Available on the tcall.tamu.edu website!

DART: A FOUNDATIONAL DIGITAL LITERACY ESL CURRICULUM

Table of Contents

Keyboard

- [Lesson 1: Lowercase Alphabet Introduction](#)
- [Lesson 2: Lowercase Alphabet on the Keyboard](#)
- [Lesson 3: Uppercase Alphabet Introduction](#)
- [Lesson 4: Uppercase Alphabet on the Keyboard](#)
- [Lesson 5: Numbers and Special Keys on the Keyboard](#)
- [Lesson 6: Symbols on the Keyboard](#)

Security

- [Lesson 7: Introduction to Security](#)
- [Lesson 8: Strong and Weak Passwords](#)

Parts of a Computer



Intro

The *Digital Access and Resilience in Texas (DART)* curriculum integrates beginning English language learning with foundational digital skills. The curriculum is intended to supplement existing English language instruction in lower-level adult English as a Second Language (ESL) classes. DART is an adaptation of the A-OK To Access curriculum developed for Tyson by the same authors.



The DART curriculum provides the foundation that lower-level English language learners need to recognize and type the wide variety of characters required for most online passwords. The curriculum focuses on teaching students the skills necessary to accomplish eight major "milestones" on the way to successfully creating and logging in and out of an online account.

[Intro and Appendices](#) | [Editable Version](#)



The Curriculum in a Nutshell

- **Purpose:** Increase foundational digital literacy skills
- **Goal:** Independently create and access an online account
- **Audience:** ESL, with focus on beginners
- **Recommended Scope:** Integrated into existing ESL instruction
- **Format:** Direct face-to-face instruction
- **Devices:** Computers/laptops/tablets with Internet access and headphones; students' personal smartphones



Storyblocks Subscription Stock Image

What Are “Foundational Digital Skills”?

- Typing lowercase and uppercase letters, numbers, symbols on a computer keyboard
- Logging on a computer and accessing a wireless network
- Using a touchscreen, opening an app shortcut, minimizing and maximizing windows, typing in a web page address, navigating on web browser.
- Developing a username and complex password; changing an old password to a new one.
- Accessing and logging in to secure online resources.
- Practicing basic online safety and troubleshooting.



Lessons

1. Lowercase Alphabet Introduction
2. Lowercase Alphabet on the Keyboard
3. Uppercase Alphabet Introduction
4. Uppercase Alphabet on the Keyboard
5. Numbers and Special Keys
6. Symbols on The Keyboard
7. Introduction to Security
8. Strong and Weak Passwords
9. Parts of the Computer
10. Computer Sign In and Sign Out
11. Using the Windows Desktop
12. Connecting to the Internet
13. Using Google Chrome
14. Understanding Online Accounts
15. Creating Strong Passwords
16. Creating A Gmail Account
17. Staying Safe in a Digital World
18. Searching the Internet
19. Troubleshooting Basics
20. Digital Skills Review

What Did You Notice?



Anatomy of a Lesson

Lesson 6: Symbols on the Keyboard

Lesson 6: Symbols on the Keyboard

- **Keyboarding Practice:** Write the following on the board as it appears below:



Lesson Plan 6: Symbols on the Keyboard

Lesson Overview: In this lesson, students will identify common symbols, locate them on the keyboard, and use prepositions of place to describe their locations on the keyboard.

Lesson Objectives

- Students will identify common symbols (., / ? ! \$ # @ *) and locate them on the keyboard.
- Students will describe the location of keys on the keyboard relative to each other using prepositions of place above, below, on, and next to.

Materials and Setup

Technology/Equipment

- An internet- and audio-enabled computer, projector, and screen
- Recommended: External Windows keyboards (1 per student)
- Recommended: A document camera

Supplies/Teacher Materials

- Whiteboard and markers
- Yellow highlighters, 1 per student
- Teacher Materials 6.1: Symbols PowerPoint
- Teacher Materials 6.2: Symbols Bingo Cards

Student Handouts

- Handout 1: Windows Keyboard Image
- Handout 2: Symbols PowerPoint Notes
- Handout 3: Locating Symbols on the Keyboard
- Handout 4: Symbols Keyboard Assessment

Online Resources

- [Wordwall's Symbols](#)

Instructional Tips

- **Key Vocabulary:** You may want to ask students to label a page in their notebooks for this lesson's key vocabulary and have them write down each of the words as you explain them as they are used in the context of the lesson. Ask students to write down the meaning of the word in their own language.

er
Odu2
er dictates it to the other, identifying the uppercase
idents switch roles. When finished, they check their
text using the Windows keyboard handout or a

ard(s)
ntly occurring words, simple phrases, and formulaic

g., technical, academic)
ical, academic)

Computer Skill(s)
ledge of keys on keyboard (Enter, Shift, Control,
lock, Number Lock)

- at (@)
 - star or asterisk (*)
 - prepositions of place
 - on
 - above
 - below
 - next to
- Reinforced vocabulary: keyboard, key, shift, press and hold down, tap

NOTES

s PowerPoint.

ols like these every day?" (in

12/14/22 2

uter Keyboard Image. This is the same handout
but they need another copy for the following

s to students.

m the Teacher Materials 6.1 Symbols PowerPoint.

symbol, ask students to find the symbol on their
yboard.

ghter to highlight, or color in , the symbols. Check
text symbol from the PPT slide highlighted in yellow.

ols PowerPoint Notes. Ask students to use the
the game they will play.

the online game created for this lesson: [Wordwall's](#)
choose a format. The Quiz or Open the Box format
nd individual review. The Game Show format is good
See the [Differentiation Resources](#) section for an idea
by in Game Show format.

of 2 to 3 students each. Pass out a marker and 5
m. Ask students to fold the paper into 4 parts. Show
time. Give teams about 30 seconds or so to write
are of the paper.

ns hold up the paper with their answer written down.
o track of the number of times each team provides a
me 2 times. The second time, if you believe students
using their PowerPoint Notes, ask them to put them

s (Handout 1) using a document camera if possible.
line of numbers on the keyboard image. Then point
e numbers line have both a number and a symbol on

o the number, but how do we get the symbol? Wait

n use the SHIFT key to make capital letters? We can
ake the symbols that are above the numbers on the

ard 12/14/22 3

Lesson 6: Symbols on the Keyboard

12/14/22 4

Keyboard

s down the SHIFT key and then tap on the

d their locations again.

e more time.

erPoint and have students show what keys to
by holding down the SHIFT key and then
: 1 OR on disconnected computer keyboards.

cher Materials 6.2 Symbols Bingo Cards
se as markers. Play Bingo with students by
and asking them to locate it on their cards.

ymbols on the Keyboard. Demonstrate the
or images you draw on the board: above,

itions of place on Handout 3. Have students
amples at the top, such as X is above Y, x is
by using 2 objects in your hands or

ensure that students understand. If they
whole class until you believe most students
th a partner.

omplete Handout 3. Go over the correct
down at the bottom of the handout.

ers to describe its location in relation to
special keys.

board Assessment.

that they would need to press and hold
rase next to the image. Go over the answers

Meet Diverse Learner Needs

s, you may want to have them work together
h the symbols.

Lesson 6: Symbols on the Keyboard

12/14/22 5

Overview and Objectives



Lesson Plan 6: Symbols on the Keyboard

Lesson Overview: In this lesson, students will identify common symbols, locate them on the keyboard, and use prepositions of place to describe their locations on the keyboard.

Lesson Objectives

- Students will identify common symbols (. , / ? ! \$ # @ *) and locate them on the keyboard.
- Students will describe the location of keys on the keyboard relative to each other using prepositions of place above, below, on, and next to.

Materials and Setup

Technology/Equipment

- An internet- and audio-enabled computer, projector, and screen
- Recommended: External Windows keyboards (1 per student)
- Recommended: A document camera

Supplies/Teacher Materials

- Whiteboard and markers
- Yellow highlighters, 1 per student
- Teacher Materials 6.1: Symbols PowerPoint
- Teacher Materials 6.2: Symbols Bingo Cards

Student Handouts

- Handout 1: Windows Keyboard Image
- Handout 2: Symbols PowerPoint Notes
- Handout 3: Locating Symbols on the Keyboard
- Handout 4: Symbols Keyboard Assessment

Online Resources

- [Wordwall's Symbols](#)

Instructional Tips

- **Key Vocabulary:** You may want to ask students to label a page in their notebooks for this lesson's key vocabulary and have them write down each of the words as you explain them as they are used in the context of the lesson. Ask students to write down the meaning of the word in their own language.

Lesson Overview: In this lesson, students will identify common symbols, locate them on the keyboard, and use prepositions of place to describe their locations on the keyboard.

Lesson Objectives

- Students will identify common symbols (. , / ? ! \$ # @ *) and locate them on the keyboard.
- Students will describe the location of keys on the keyboard relative to each other using prepositions of place above, below, on, and next to.

Materials and Setup



Lesson Plan 6: Symbols on the Keyboard

Lesson Overview: In this lesson, students will identify common symbols, locate them on the keyboard, and use prepositions of place to describe their locations on the keyboard.

Lesson Objectives

- Students will identify common symbols (. , / ? ! \$ # @ *) and locate them on the keyboard.
- Students will describe the location of keys on the keyboard relative to each other using prepositions of place above, below, on, and next to.

Materials and Setup

Technology/Equipment

- An Internet- and audio-enabled computer, projector, and screen
- Recommended: External Windows keyboards (1 per student)
- Recommended: A document camera

Supplies/Teacher Materials

- Whiteboard and markers
- Yellow highlighters, 1 per student
- Teacher Materials 6.1: Symbols PowerPoint
- Teacher Materials 6.2: Symbols Bingo Cards

Student Handouts

- Handout 1: Windows Keyboard Image
- Handout 2: Symbols PowerPoint Notes
- Handout 3: Locating Symbols on the Keyboard
- Handout 4: Symbols Keyboard Assessment

Online Resources

- [Wordwall's Symbols](#)

Instructional Tips

- **Key Vocabulary:** You may want to ask students to label a page in their notebooks for this lesson's key vocabulary and have them write down each of the words as you explain them as they are used in the context of the lesson. Ask students to write down the meaning of the word in their own language.

Materials and Setup

Technology/Equipment

- An Internet- and audio-enabled computer, projector, and screen
- Recommended: External Windows keyboards (1 per student)
- Recommended: A document camera

Supplies/Teacher Materials

- Whiteboard and markers
- Yellow highlighters, 1 per student
- Teacher Materials 6.1: Symbols PowerPoint
- (Optional) Teacher Materials 6.2: Symbols Bingo Cards

Student Handouts

- Handout 1: Windows Keyboard Image
- Handout 2: Symbols PowerPoint Notes
- Handout 3: Locating Symbols on the Keyboard
- Handout 4: Symbols Keyboard Assessment
- (Optional) Handout 5: Symbols Flashcards
- (Optional) Handout 6: More Symbols Flashcards

Online Resources

- [Wordwall Symbols](#)

Instructional Tips

- **Key Vocabulary:** You may want to ask students to label a page in their notebooks for this lesson's key vocabulary and have them write down each of the words as you explain them as they are used in the context of the lesson. Ask students to write down the meaning of the word in their own language.

Standards and Key Vocabulary

Lesson 6: Symbols on the Keyboard

- **Keyboarding Practice:** Write the following on the board as it appears below:

Serial Number
6Y72 SQ390 01u2

Ask students to work in partner. One partner dictates it to the other, identifying the uppercase letters, spaces, and enter key. Then the students switch roles. When finished, they check their work. Next, each one practices typing the text using the Windows keyboard handout or a disconnected computer keyboard.

Standards

Adult English Language Proficiency Content Standard(s)

- 8.1. Recognize the meaning of a few frequently occurring words, simple phrases, and formulaic expressions

CASAS Content Standard(s)

- R2.1 Interpret common symbols
- W4.5 Use specialized vocabulary
- L2.9 Comprehend specialized vocabulary (e.g., technical, academic)
- S2.9 Use specialized vocabulary (e.g., technical, academic)

Seattle Digital Equity Initiative Skill(s)

- MO.4 Mobile basics

Northstar Digital Literacy Standards for Essential Computer Skill(s)

- Basic Computer Skills 4: Demonstrate knowledge of keys on keyboard (Enter, Shift, Control, Backspace, Delete, Arrow Keys, Tab, Caps Lock, Number Lock)

Key Vocabulary

- | | |
|---|---|
| <ul style="list-style-type: none">• special character• symbol• period/dot (.)• comma (,)• backslash (/)• question mark (?)• exclamation mark (!)• dollar sign (\$)• number sign/pound sign/hash tag (#) | <ul style="list-style-type: none">• at (@)• star or asterisk (*)• prepositions of place• on• above• below• next to <p>Reinforced vocabulary: keyboard, key, shift, press and hold down, tap</p> |
|---|---|

ENGAGEMENT

- Say, Today we are going to work on symbols.
- Show Slide 1 of Teacher Materials: 6.1: Symbols PowerPoint.
- Say, These are symbols. Where do you see symbols like these every day? (in text, at the store, on signs, etc.)

NOTES

Standards

Adult English Language Proficiency Content Standard(s)

- 8.1. Recognize the meaning of a few frequently occurring words, simple phrases, and formulaic expressions

CASAS Content Standard(s)

- R2.1: Interpret common symbols
- W4.5: Use specialized vocabulary
- L2.9: Comprehend specialized vocabulary (e.g., technical, academic)
- S2.9: Use specialized vocabulary (e.g., technical, academic)

Seattle Digital Equity Initiative Skill(s)

- MO.4: Mobile basics

Northstar Digital Literacy Standards for Essential Computer Skill(s)

- Basic Computer Skills 4: Demonstrate knowledge of keys on keyboard (Enter, Shift, Control, Backspace, Delete, Arrow Keys, Tab, Caps Lock, Number Lock)

Understanding the 5E Lesson Plan

5E Lesson Plan

- **Engagement:** Arouse curiosity and interest; activate background knowledge
- **Exploration:** A little hands-on practice or inquiry to get them started
- **Explanation:** Mini-lecture or demonstration to make things clearer; focus on your learning objective
- **Elaboration:** extend and apply what they have learned so far
- **Evaluation:** assess AND discuss additional questions students have

ENGAGEMENT

Lesson 6: Symbols on the Keyboard

- **Keyboarding Practice:** Write the following on the board as it appears below:

Serial Number
6Y72 SQ390 01u2

Ask students to work in partner. One partner dictates it to the other, identifying the uppercase letters, spaces, and enter key. Then the students switch roles. When finished, they check their work. Next, each one practices typing the text using the Windows keyboard handout or a disconnected computer keyboard.

Standards

Adult English Language Proficiency Content Standard(s)

- 8.1. Recognize the meaning of a few frequently occurring words, simple phrases, and formulaic expressions

CASAS Content Standard(s)

- R2.1 Interpret common symbols
- W4.3 Use specialized vocabulary
- L2.9 Comprehend specialized vocabulary (e.g., technical, academic)
- S2.9 Use specialized vocabulary (e.g., technical, academic)

Seattle Digital Equity Initiative Skill(s)

- MO.4 Mobile basics

Northstar Digital Literacy Standards for Essential Computer Skill(s)

- Basic Computer Skills 4: Demonstrate knowledge of keys on keyboard (Enter, Shift, Control, Backspace, Delete, Arrow Keys, Tab, Caps Lock, Number Lock)

Key Vocabulary

- | | |
|---|--|
| <ul style="list-style-type: none">• special character• symbol• period/dot (.)• comma (,)• backslash (/)• question mark (?)• exclamation mark (!)• dollar sign (\$)• number sign/pound sign/hash tag (#) | <ul style="list-style-type: none">• at (@)• star or asterisk (*)• prepositions of place• on• above• below• next to <p><i>Reinforced vocabulary: keyboard, key, shift, press and hold down, tap</i></p> |
|---|--|

ENGAGEMENT

- **Say,** Today we are going to work on symbols.
- Show Slide 1 of Teacher Materials: 6.1: Symbols PowerPoint.
- **Say,** These are symbols. Where do you see symbols like these every day? (in text, at the store, on signs, etc.)

NOTES

Say: Today we are going to work on symbols.

Show Slide 1 of **Teacher Materials: 6.1: Symbols PowerPoint.**

Say: These are symbols. Where do you see symbols like these every day? (in text, at the store, on signs, etc.)

EXPLORATION

Lesson 6: Symbols on the Keyboard

EXPLORATION

- Pass out **Handout 1: Computer Keyboard Image**. This is the same handout students used in Lesson 5, but they need another copy for the following activity.
- Pass out yellow highlighters to students.
- Continue to show slides from the **Teacher Materials 6.1 Symbols PowerPoint**.
- As you introduce each new symbol, ask students to find the symbol on their Handout 1: Image of the Keyboard.
- Say: Use your yellow highlighter to highlight, or color in, the symbols. Check that students have the correct symbol from the PPT slide highlighted in yellow.
- Pass out **Handout 2: Symbols PowerPoint Notes**. Ask students to use the handout to help them with the game they will play.
- On your computer, display the online game created for this lesson: [Wordwall's Symbols](#). On the right side, choose a format. The Quiz or Open the Box format are good for class review and individual review. The Game Show format is good for a friendly competition. See the *Differentiation Resources* section for an idea of how to present the activity in Game Show format.

Divide the class into teams of 2 to 3 students each. Pass out a marker and 5 sheets of paper to each team. Ask students to fold the paper into 4 parts. Show the class the items one at a time. Give teams about 30 seconds or so to write their responses on one square of the paper.

Call time and have the teams hold up the paper with their answer written down. Use the whiteboard to keep track of the number of times each team provides a correct answer. Play the game 2 times. The second time, if you believe students can play the game without using their PowerPoint Notes, ask them to put them away.

EXPLANATION

- Project the keyboard image (Handout 1) using a document camera if possible. Draw a square around the line of numbers on the keyboard image. Then point out that all of the keys in the numbers line have both a number and a symbol on them.
- Ask: We know how to get to the number, but how do we get the symbol? Wait for responses.
- Say: Remember how we can use the SHIFT key to make capital letters? We can also use the SHIFT key to make the symbols that are above the numbers on the keyboard.

- Pass out **Handout 1: Windows Keyboard Image**. This is the same handout students used in Lesson 5, but they need another copy for the following activity.
- Pass out yellow highlighters to students.
- Continue to show slides from the **Teacher Materials 6.1: Symbols PowerPoint**.
- As you introduce each new symbol, ask students to locate the symbol on their **Handout 1**.
- **Say:** Use your yellow highlighter to highlight, or color in, the symbols. Check that students have the correct symbol from the PPT slide highlighted in yellow.
- Pass out **Handout 2: Symbols PowerPoint Notes**. Ask students to use the handout to help them with the game they will play.
- On your computer, display the online game created for this lesson: [Wordwall Symbols](#). On the right side, choose a format/template. The Quiz or Open the Box format are good for class review and individual review. The Gameshow quiz format is good for a friendly competition. See the *Differentiation Resources* section for an idea of how to present the activity in Gameshow quiz format.

Divide the class into teams of 2 to 3 students each. Pass out a marker and 5 sheets of paper to each team. Ask students to fold the paper into 4 parts. Show the class the items one at a time. Give teams about 30 seconds or so to write their responses on one square of the paper.

Call time and have the teams hold up the paper with their answer written down. Use the whiteboard to keep track of the number of times each team provides a correct answer. Play the game 2 times. The second time, if you believe students can play the game without using their PowerPoint Notes, ask them to put them away.

EXPLANATION

Lesson 6: Symbols on the Keyboard

EXPLORATION

- Pass out **Handout 1: Computer Keyboard Image**. This is the same handout students used in Lesson 5, but they need another copy for the following activity.
- Pass out yellow highlighters to students.
- Continue to show slides from the **Teacher Materials 6.1 Symbols PowerPoint**.
- As you introduce each new symbol, ask students to find the symbol on their **Handout 1: Image of the Keyboard**.
- Say: Use your yellow highlighter to highlight, or color in, the symbols. Check that students have the correct symbol from the PPT slide highlighted in yellow.
- Pass out **Handout 2: Symbols PowerPoint Notes**. Ask students to use the handout to help them with the game they will play.
- On your computer, display the online game created for this lesson: [Wordwall's Symbols](#). On the right side, choose a format. The Quiz or Open the Box format are good for class review and individual review. The Game Show format is good for a friendly competition. See the *Differentiation Resources* section for an idea of how to present the activity in Game Show format.

Divide the class into teams of 2 to 3 students each. Pass out a marker and 5 sheets of paper to each team. Ask students to fold the paper into 4 parts. Show the class the items one at a time. Give teams about 30 seconds or so to write their responses on one square of the paper.

Call time and have the teams hold up the paper with their answer written down. Use the whiteboard to keep track of the number of times each team provides a correct answer. Play the game 2 times. The second time, if you believe students can play the game without using their PowerPoint Notes, ask them to put them away.

EXPLANATION

- Project the keyboard image (**Handout 1**) using a document camera if possible. Draw a square around the line of numbers on the keyboard image. Then point out that all of the keys in the numbers line have both a number and a symbol on them.
- Ask: We know how to get to the number, but how do we get to the symbol? Wait for responses.
- Say: Remember how we can use the SHIFT key to make capital letters? We can also use the SHIFT key to make the symbols that are above the numbers on the keyboard.

- Project the Windows keyboard image (**Handout 1**) using a document camera if possible. Draw a square around the line of numbers on the keyboard image. Then point out that all of the keys in the numbers line have both a number and a symbol on them.
- **Ask:** We know how to get to the number, but how do we get to the symbol? (Wait for responses.)
- **Say:** Remember how we can use the SHIFT key to make capital letters? We can also use the SHIFT key to make the symbols that are above the numbers on the keyboard.
- Model how you must press and hold down the SHIFT key and then tap on the key with the symbol.
- **Say:** Now, it's your turn to try!
- Go through each of the symbols and their locations again.
- Model how to use the SHIFT key one more time.
- Call out each symbol from the PowerPoint and have students show what keys to press to create the symbol, which is by holding down the SHIFT key and then tapping the symbol key on **Handout 1** OR on disconnected computer keyboards.
- Optional Practice: Distribute the **Teacher Materials 6.2: Symbols Bingo Cards** and paperclips or other objects to use as markers. Play Bingo with students by calling out the name of the symbol and asking them to locate it on their cards.

ELABORATION

Lesson 6: Symbols on the Keyboard

- Model how you must press and hold down the SHIFT key and then tap on the key with the symbol.
- Say: Now, it's your turn to try!
- Go through each of the symbols and their locations again.
- Model how to use the SHIFT key one more time.
- Call out each symbol from the PowerPoint and have students show what keys to press to create the symbol, which is by holding down the SHIFT key and then tapping the symbol key on Handout 1 OR on disconnected computer keyboards.
- Optional Practice: Distribute the Teacher Materials 6.2 Symbols Bingo Cards and paperclips or other objects to use as markers. Play Bingo with students by calling out the name of the symbol and asking them to locate it on their cards.

ELABORATION

- Distribute Handout 3: Locating Symbols on the Keyboard. Demonstrate the prepositions of place using objects or images you draw on the board: above, below, on, and next to.
- As a whole class, go over the prepositions of place on Handout 3. Have students practice saying the phrases in the examples at the top, such as X is above Y, X is next to Y, etc. You can also practice by using 2 objects in your hands or classroom objects.
- Complete 2 or 3 items as a class to ensure that students understand. If they struggle, then continue to work as a whole class until you believe most students can work on the remaining items with a partner.
- Have students work in partners to complete Handout 3. Go over the correct answers, which are printed upside down at the bottom of the handout.
- Call out a symbol and ask for volunteers to describe its location in relation to other symbols, numbers, letters, or special keys.

EVALUATION

- Pass out Handout 4: Symbols Keyboard Assessment.
- Ask students to circle all of the keys that they would need to press and hold down or tap to type the word or phrase next to the image. Go over the answers with students when they finish.

Differentiation Resources to Meet Diverse Learner Needs

- Depending on your level of students, you may want to have them work together in pairs as they become familiar with the symbols.

- Distribute **Handout 3: Locating Symbols on the Keyboard**. Demonstrate the prepositions of place using objects or images you draw on the board: above, below, on, and next to.
- As a whole class, go over the prepositions of place on **Handout 3**. Have students practice saying the phrases in the examples at the top, such as X is above Y, X is next to Y, etc. You can also practice by using 2 objects in your hands or classroom objects.
- Complete 2 or 3 items as a class to ensure that students understand. If they struggle, then continue to work as a whole class until you believe most students can work on the remaining items with a partner.
- Have students work in partners to complete **Handout 3**. Go over the correct answers, which are printed upside down at the bottom of the handout.
- Call out a symbol and ask for volunteers to describe its location in relation to other symbols, numbers, letters, or special keys.

EVALUATION

- Pass out **Handout 4: Symbols Keyboard Assessment**.
- Ask students to circle all of the keys that they would need to press and hold down or tap to type the word or phrase next to the image. Go over the answers with students when they finish.

Lesson 6: Symbols on the Keyboard

- Model how you must press and hold down the SHIFT key and then tap on the key with the symbol.
- Say: Now, it's your turn to try!
- Go through each of the symbols and their locations again.
- Model how to use the SHIFT key one more time.
- Call out each symbol from the PowerPoint and have students show what keys to press to create the symbol, which is by holding down the SHIFT key and then tapping the symbol key on Handout 1 OR on disconnected computer keyboards.
- Optional Practice: Distribute the Teacher Materials 6.2 Symbols Bingo Cards and paperclips or other objects to use as markers. Play Bingo with students by calling out the name of the symbol and asking them to locate it on their cards.

ELABORATION

- Distribute Handout 3: Locating Symbols on the Keyboard. Demonstrate the prepositions of place using objects or images you draw on the board: above, below, on, and next to.
- As a whole class, go over the prepositions of place on Handout 3. Have students practice saying the phrases in the examples at the top, such as X is above Y, X is next to Y, etc. You can also practice by using 2 objects in your hands or classroom objects.
- Complete 2 or 3 items as a class to ensure that students understand. If they struggle, then continue to work as a whole class until you believe most students can work on the remaining items with a partner.
- Have students work in partners to complete Handout 3. Go over the correct answers, which are printed upside down at the bottom of the handout.
- Call out a symbol and ask for volunteers to describe its location in relation to other symbols, numbers, letters, or special keys.

EVALUATION

- Pass out Handout 4: Symbols Keyboard Assessment.
- Ask students to circle all of the keys that they would need to press and hold down or tap to type the word or phrase next to the image. Go over the answers with students when they finish.

Differentiation Resources to Meet Diverse Learner Needs

- Depending on your level of students, you may want to have them work together in pairs as they become familiar with the symbols.



1. daisy@gmail.com



2. amazon.com/ebooks

DIFFERENTIATION

Lesson 6: Symbols on the Keyboard

- Model how you must press and hold down the SHIFT key and then tap on the key with the symbol.
- Say: Now, it's your turn to try!
- Go through each of the symbols and their locations again.
- Model how to use the SHIFT key one more time.
- Call out each symbol from the PowerPoint and have students show what keys to press to create the symbol, which is by holding down the SHIFT key and then tapping the symbol key on Handout 1 OR on disconnected computer keyboards.
- Optional Practice: Distribute the Teacher Materials 6.2 Symbols Bingo Cards and paperclips or other objects to use as markers. Play Bingo with students by calling out the name of the symbol and asking them to locate it on their cards.

ELABORATION

- Distribute Handout 3: Locating Symbols on the Keyboard. Demonstrate the prepositions of place using objects or images you draw on the board: above, below, on, and next to.
- As a whole class, go over the prepositions of place on Handout 3. Have students practice saying the phrases in the examples at the top, such as X is above Y, X is next to Y, etc. You can also practice by using 2 objects in your hands or classroom objects.
- Complete 2 or 3 items as a class to ensure that students understand. If they struggle, then continue to work as a whole class until you believe most students can work on the remaining items with a partner.
- Have students work in partners to complete Handout 3. Go over the correct answers, which are printed upside down at the bottom of the handout.
- Call out a symbol and ask for volunteers to describe its location in relation to other symbols, numbers, letters, or special keys.

EVALUATION

- Pass out Handout 4: Symbols Keyboard Assessment.
- Ask students to circle all of the keys that they would need to press and hold down or tap to type the word or phrase next to the image. Go over the answers with students when they finish.

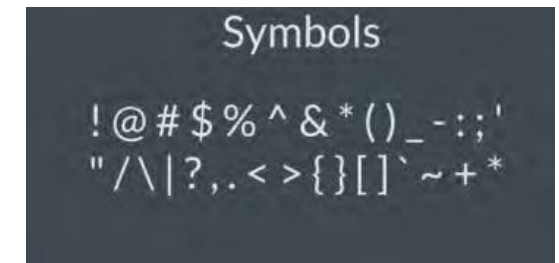
Differentiation Resources to Meet Diverse Learner Needs

- Depending on your level of students, you may want to have them work together in pairs as they become familiar with the symbols.

- Depending on your level of students, you may want to have them work together in pairs as they become familiar with the symbols.
- Text students the link to the online [Wordwall Symbols](https://wordwall.net/resource/33765388/symbols) activity. They can open it directly from their phones and practice on their own: <https://wordwall.net/resource/33765388/symbols>.
- Print out flashcards for students to take home and cut out to practice. Use the **Optional Handout 5: Symbols Flashcards** for beginning students and add the **Optional Handout 6: More Symbols Flashcards** for more advanced students.

For more advanced students:

- If students are already familiar with most or all of these symbols, include some or all of the remaining symbols that many websites allow.
- [Typtastic Unit 7: The Secret of Symbols](#) has four lessons that have learners
- practice typing a few symbols at a time.



Differentiation Resources

Strategies to “bump it down” →

Activities for additional practice →

Strategies to “bump it up” →

- Depending on your level of students, you may want to have them work together in pairs as they become familiar with the symbols.
- Text students the link to the online [Wordwall Symbols](https://wordwall.net/resource/33765388/symbols) activity. They can open it directly from their phones and practice on their own:
<https://wordwall.net/resource/33765388/symbols>.
- Print out flashcards for students to take home and cut out to practice. Use the **Optional Handout 5: Symbols Flashcards** for beginning students and add the **Optional Handout 6: More Symbols Flashcards** for more advanced students.

→ *For more advanced students:*

- If students are already familiar with most or all of these symbols, include some or all of the remaining symbols that many websites allow.
- [Typtastic Unit 7: The Secret of Symbols](#) has four lessons that have learners
- practice typing a few symbols at a time.

Customizing DART

Changes Across the Lessons



- Combine lessons or pieces of lessons
- Reorder lessons
- Add additional lessons

DART is PART

- Incorporate explicit phonemic awareness, phonics, and/or grammar instruction
- Incorporate additional activities
- Create games out of lesson activities
- Use grouping strategies



Prepare to Teach it Your Way!

Just thinking about the lesson on symbols that we analyzed, what changes do you think you or your teachers might make?

- Daily warm-up routine
- Prior skills review
- Vocabulary routine
- Keyboard practice
- Student pull-outs
- Grouping for differentiation
- Replace activities with new ones
- Add new activities
- Create new handouts

Comments and Questions

