PRCVI:::::::

Provincial Resource Centre for the Visually Impaired







Unified English Braille (UEB) from K-3

Developed by

Chris Marshall Jennifer Jesso Ellen Hsieh

With assistance from PRCVI transcribers and the BC UEB Implementation committee



Introduction

- In this presentation, we will cover the changes to Braille relevant for Grades K to 3
- Cover Literary and Math content
- This is a hands-on workshop, please braille the examples
- To show the changes, we have some examples in English Braille, American Edition (EBAE) and UEB

Spacing

Follow print spacing of words. Do not join (or "cuddle") words.

and, for, of, the, with

The Queen of Hearts went for a ride with the dog and the rabbit.



Braille these sentences

I like the shirt with the stripes and the dots

I looked everywhere for the missing sock.

None of the shoes fit.

Braille these sentences

I like the shirt with the stripes and the dots

I looked everywhere for the missing sock.

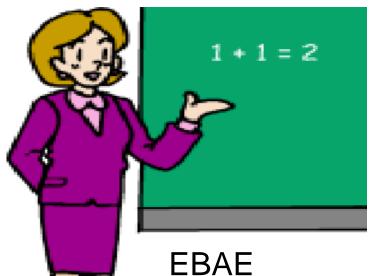
None of the shoes fit.

Contractions

Contractions no longer used in UEB:



Activity



Which contractions are no longer in use in this sentence?

By 3 o'clock, Sally blew her gum into a bubble for her Daddy.

```
EBAE
```

```
UEB
```



Braille these sentences

I am not able to help you.

Can you come and play?

Mommy and Daddy went on vacation.



Braille these sentences

I am not able to help you.

Can you come and play?

Mommy and Daddy went on vacation.



More Practice

I really like ice cream.

I had fun playing soccer.

Maggie carried the computer table into the house.

I go to bed by nine o'clock.

More Practice

I really like ice cream.

I had fun playing soccer.

Maggie carried the computer table into the house.

I go to bed by nine o'clock.

Prefixes and Roots

The cells preceding the root are called prefix.

For example:

A capital letter is made up of a root (the letter) preceded by a prefix (the capitalized letter indicator).

Prefixes have always been used in Braille:

Will :: :

word :::

work :

world





Punctuation

The following are examples of punctuation that have been changed in UEB:

```
single quotes ''

double quotes " "

parentheses ()

brackets []

braces {}
```

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Practice

She said, "UEB 'Rocks!"

Answer the question [Yes] or [No].

I picked up my (tea) cup.



Practice

```
She said, "UEB 'Rocks!"
Answer the question [Yes] or [No].
I picked up my (tea) cup.
```

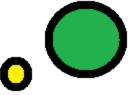


Dots and Dashes

ellipse ...
dash —
long dash —
hyphen underscore

A dot is a dot is a dot. (period, decimal point, ellipsis and dot as in a web address)







Braille the examples

The winner is...

www.prcvi.org

I like merry-go-rounds.

Fill in the _____

Use a long dash in braille only when print uses both a short and long dash.

Oh dear——it's raining—we'll get wet!



Braille the examples

```
The winner is...
www.prcvi.org
Use a long dash in braille
I like merry-go-rounds.
                    only when print uses both a
                      short and long dash.
Fill in the
Oh dear——it's raining—we'll get wet!
```



Symbols

The following symbols have been changed in UEB

We have only covered a few examples for K-3 students. For a full list of UEB symbols, check the Rules of UEB.

Transcriber's note opening

Transcriber's note closing



Braille the examples

5°

\$10.50

82¢

I like PB&J sandwiches.

Put a √ beside each sentence.



Braille the examples

```
50
$10.50
82¢
I like PB&J sandwiches.
Put a \sqrt{} beside each sentence.
```

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More Practice

Ingredients:

- sugar
- egg

My e-mail is my_inbox@me.com.

I got 100%!



More Practice

```
Ingredients:
 • sugar
 egg
My e-mail is my_inbox@me.com.
I got 100%!
```



Capitalization Indicators

Capitalized letter

Capitalized word

Capitalized passage

Capitalization terminator

Place after the last word/symbol in the capitalized passage

A passage is three or more words/symbols-sequences and it may include non-alphabetic symbols



Grade 1 Indicators

Symbol

Word

Passage

Terminator

Used to set Grade 1 mode when the Grade 1 meaning of symbol could be confused with a contraction or number.

The vowels are a, e, i, o, and u.

My class is in portable 1a.

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The numeric indicator also sets grade 1 mode.

See the Rule Book for complete details.

E-mail me at gr8invention@example.com!



Braille These Examples

He shouted, "S-T-O-P!"

G-g-g-g-go!

The sign said: SCHOOL WILL BE OUT UNTIL FURTHER NOTICE.



Braille These Examples

```
He shouted, "S-T-O-P!"
G-g-g-g-go!
The sign said: SCHOOL WILL BE OUT
UNTIL FURTHER NOTICE.
```



Typeface Indicators

Can you identify the root and the prefix?

Boldface symbol

Boldface word

Boldface passage

Boldface terminator

Italic symbol
Italic word
Italic passage
Italic terminator

Underlined symbol
Underlined word
Underlined passage
Underlined terminator



Braille these sentences

I am so excited!

Is the e in red a short or long vowel?

<u>Underline</u> the correct answer.

Have a great summer vacation! she said.

Braille these sentences

```
I am so excited!
Is the e in red a short or long vowel?
Underline the correct answer.
Have a great summer vacation! she said.
```



Don't forget to call home ...

```
604-264-5052
```

604 283 5069

You can put a space within number using a numeric space indicator.

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... or write!

My mom's office is on the 21st floor.

You <u>can no longer</u> use contractions following ordinal numbers



Braille the example

573-5739 19th Street Vancouver, BC CANADA V4K 8E2

Phone: 604-375-3253

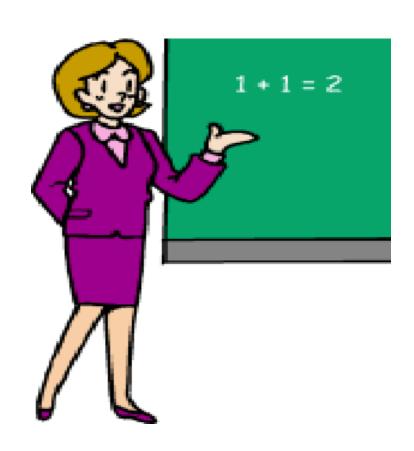


Braille the example

573-5739 19th Street Vancouver, BC CANADA V4K 8E2

Phone: 604-375-3253

Mathematics



All numbers in UEB are brailled in the upper portion of the cell, even in technical material.



Basic Math Symbols

```
Plus + :::

Minus - ::::

Equals = ::::
```

$$2 \times 3 = 6$$

$$7 - 2 = 5$$

$$10 \div 2 = 5$$



Braille These Problems

$$1 + 1 = 2$$

$$181 - 104 = 77$$

$$3x5 = 15$$

$$27 \div 3 = 9$$

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Braille These Problems

$$1 + 1 = 2$$

$$3x5 = 15$$

$$27 \div 3 = 9$$

More Math Symbols

```
Greater Than > ::::
                    Forward Slash /
                                  . . . .
            Superscript <sup>2</sup>
Less Than <
                           22
24/7
         ls 5 > 3?
         ......
cm^2
         Is 2 < 1?
```



More Practice!

The number is > 5 but < 10.

 2^3 is the same as $2 \times 2 \times 2$.

01/25/14



More Practice!

```
The number is > 5 but < 10.

2³ is the same as 2 \times 2 \times 2.

01/25/14
```

Fractions

Simple fraction line :

Forward Slash /

Simple Numeric Fraction

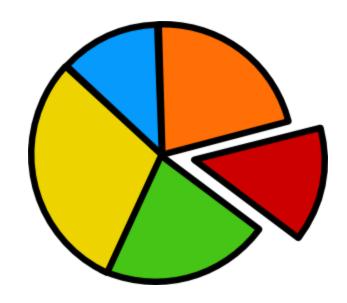
```
\frac{1}{2}
```

Mixed number

```
6 3/4
```

Fractions in linear form

```
7/11
```



Now Practice

One quarter is written as $\frac{1}{4}$.

 $\frac{1}{8}$

5 ½

24/7/365

Now Practice

One quarter is written as 1/4.

PRCVI :::-"...



Measurement

There are two ways to show feet and inches depending on whether the print uses straight or directional symbols.

For K-3 students, we suggest using the directional symbols.



Now Your Turn

I asked for a 50" TV for my 10th birthday.

My daddy is 6' 3" tall.



Now Your Turn

I asked for a 50" TV for my 10th birthday.

My daddy is 6' 3" tall.



Spatial Calculation

In spatial calculation, you may use a numeric passage indication and a numeric terminator. This sets numeric and grade 1 mode.

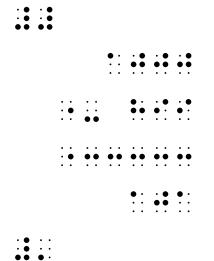
Numeric passage indicator ::::

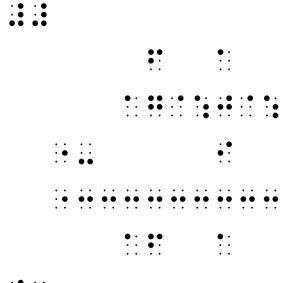
Numeric terminator

Cancellation indicator

In a numeric passage, any lower-case letters (a to j) is proceeded by grade 1 indicator.

Spatial Calculation Examples





PRACTICE

7 12 4 16

1. 8258 -2347 5909



• • • • • •

. . . .

```
7 12 4 16 :::
1. 8258
 -2347
  5909
```





Once a student knows how to read problems using the cancellation indicator, they can complete spatial problems without it for speed and efficiency.

CONGRATULATIONS!

You have come to the end of this presentation on UEB from K to 3.

We hope you have enjoyed it and found it helpful.

Let us know if you have any questions.

For further reference refer to the Rules of UEB and Technical Guidelines http://www.iceb.org/ueb.html