2017-2018 Science Instructional Materials

Universal Design Learning (UDL) Questionnaire

Bid Number: 3298
Course: Science
Title of Materials: Chemistry 1
Publisher: McGraw-Hill Education

The following are questions asked of the publisher and their responses can be found in their UDL document which is provided on their reviewer portal. Please mark where the material falls on the scale and provide comments that will help publishers improve their product and districts make informed choices. On completion please return to Cathy Seeds at Cathy.Seeds@fldoe.org.

1. **How are both flexibility and student choices provided for the following presentation features in the instructional materials:**

   - Fonts:
     o Type and size.
     o Colors and background colors can be adjusted.

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
		X		

Comment: Text on content pages can be enlarged through a built-in magnification tool. Browser magnification can also be used. Font type could not be adjusted. Color filter features in the Windows operating system had some effect on colors and contrast. Adjusting the type of fonts and colors can increase the readability of the content for some students.

   - Background: High contrast color settings are available.

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
			X	

Comment: Contrast settings in the operating system had no effect, but color filter settings in the Windows 10 operating system could be used to invert the contrast. Adjusting the contrast can increase the readability of the content for some students.

   - Text-to-speech tools

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
			X	

Comment: Audio recordings of each page of the primary content is available via a button on each content page. Text cannot be selected for specific read-aloud. The entire page is a single audio recording. The recording can be "scrubbed" to move from one section to another. Text to speech support is important for students who have problems decoding text but may not need to hear everything in audio. Text selection is important.

   - All images have alt tags.

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
				X

Comment: This function is not yet available. Alt tags and description tags are important supports for students who are blind or visually impaired.

- All videos are captioned.

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
				X

Comment: This function is not yet available. Closed captioning is important for students who are deaf or hard of hearing.

- Text, image tags, and captioning sent to refreshable Braille displays.

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
				X

Comment: This functionality is not yet available. Support for refreshable braille displays is needed by students who are blind.

2. How are the following navigation features provided in the instructional materials:

- Non-text navigation elements (buttons, icons, etc.) can be adjusted in size.

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
		X		

Comment: Browser magnification can be used to increase the size of non-text navigation elements. Being able to adjust the size of buttons and icons helps students who use switch systems to control a computer.

- All navigation elements and menu items have keyboard shortcuts.

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
				X

Comment: This function is not yet available. Keyboard shortcuts are important when creating alternative keyboards, command overlays, and custom onscreen keyboards for students who have fine motor limitations.

- All navigation information can be sent to refreshable Braille displays.

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
				X

Comment: This function is not yet available. Support for refreshable braille displays is needed by students who are blind.

3. How are the following study tools provided in the instructional materials:

- Highlighters are provided in the four standard colors (yellow, rose, green, blue).

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
	X			

Comment: Highlighter tools are provided in yellow, rose, and blue. There are also pen tools in several colors that can be used in addition to the highlighter tools.

- Highlighted text can be automatically extracted into another document.

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment

Comment: This functionality is not available currently. Automatic extraction of highlighted text is an important tool for students who have problems organizing information.

- Note taking tools are available for students to write ideas online; as they are processing curriculum content.

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
	X			

Comment: Sticky notes can be added by students to any page as needed. The notes can be saved and printed.

4. **Which of the following assistive technology supports, by product name, have you tested for use with the instructional materials:**

- Assistive technology software that can be run in the background. Examples include:

    1. Magnification – not tested
    2. Text-to-speech – not tested
    3. Text-to-American Sign Language – not tested
    4. On-screen keyboards – operating system based on-screen keyboards
    5. Switch scanning controls – not tested
    6. Speech-to-text – not tested

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
			X	

Comment: In general, testing with third party assistive technologies has not been done. Testing has been done with several of the features found in common web browsers and several features found in common operating systems. Support for assistive technologies is critical to ensuring that all students are included in the instructional activities.

5. **For students with special needs who require paper materials based upon the IEP, how are the materials provided for students currently not able to access digital materials? (if specified)**

5 - Very Good Alignment	4 – Good Alignment	3 - Fair Alignment	2 – Poor Alignment	1 – Very Poor/No Alignment
X				

Comment: Printed versions of the student edition are available. The online narrative can also be printed. Worksheets, tests, and quizzes are provided in a printable format.