

2017-2018 Science Instructional Materials

Universal Design Learning (UDL) Questionnaire

Bid Number: 3436

Course: Physics 1 Honors

Title of Materials: First Person Physics

Publisher: Perfection Learning Corporation

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:
 - Type and size.
 - 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: Type size can be adjusted through browser magnification features. The publisher reports that font type and colors can be changed but no built-in tools were noted. The color filters feature on Windows 10 can be used to invert the colors and add some color filtering. The color filters and other accessibility features of iOS also work system wide. Accessibility cannot be predicted because these features are operating system dependent. 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: The publisher reports that contrast settings can be changed. A built-in tool was not noted. However, the color filter features in Windows 10 can be used to invert the colors of the text but this also inverts the colors of all pictures. Accessibility features for contrast in iOS also work system wide. Accessibility cannot be predicted because these features are operating system dependent. 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: No built-in text-to-speech tools were noted but Chrome extensions such as click2speak will work with the text in this instructional material. Microsoft Edge read aloud tools will also work but specific text or phrases cannot be selected for read aloud. Not all 3rd party text-to-speech tools will work as the text cannot be selected. Accessibility cannot be predicted. Text to speech support is important for students who have problems decoding text but may not need to hear everything in audio. Being able to select specific words or phrases for read aloud is also 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: The publisher reports that all images have alt tags. This was not observed but may be there. 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: The publisher reports that videos are captioned. Closed captioning was not noted. All of the content videos were based on the page content so the text on the page was the same as the speaking text in the videos. Some videos in the practices sections did not seem to be captioned. 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: These features are not available currently. 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: Navigation elements enlarge (magnify) along with the page and the navigation elements remain functioning so the navigation elements can be adjusted along with the entire page. 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: The publisher reports that there are keyboard shortcuts, but this feature was not observed and no list of shortcuts was provided. 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: These features are not available currently. 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: The publisher reports that these tools are available, but no built-in tools were noted. When the book is run within the Microsoft Edge browser there are highlighting and drawing tools available

that worked with this instructional material. Since these are browser specific tools accessibility cannot be predicted. Highlighters in various colors provide students a way to visually organize the instructional content, an important support for students who struggle with organizing information and making connections.

- 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
				X

Comment: The publisher reports that these tools are available, but they were not observed in the provided instructional material. 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: The publisher reports that these tools are available, but they were not observed in the provided instructional material. Notetaking tools were available when the book was run in the Microsoft Edge browser but these tools were a part of the browser. Accessibility cannot be predicted. Notetaking tools are important for students who struggle with memory. These tools also provide options for students to organizer their thoughts, processing, and understanding.

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 Freedom Scientific MAGic screen magnification software
 2. Text-to-speech Freedom Scientific MAGic screen magnification software
 3. Text-to-American Sign Language Perfection Learning will test any specific assistive technology upon request.
 4. On-screen keyboards Hot Virtual Keyboard
 5. Switch scanning controls Perfection Learning will test any specific assistive technology upon request.
 6. Speech-to-text Perfection Learning will test any specific assistive technology upon request.

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

Comment: The publisher reports some assistive technology software has been tested and additional testing can be done on request. 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: A print version is also available.