

**SECTION 508 REPORT** **Section 508 Accessibility**  
**Number Concepts 1 with Oshi the Otter™ and**  
**Number Concepts 2 with Penn and Gwen™**  
**from IntelliTools, Inc.**

April 4, 2003

For product information: *Number Concepts 1*  
*Number Concepts 2*

## **Introduction**

Section 508 of the Rehabilitation Act Amendments of 1998 requires that federal agencies ensure that disabled employees and members of the public have access to information, computers and networks comparable to access enjoyed by people without disabilities. On December 21, 2000, the Architectural and Transportation Barriers Compliance Board (the Access Board) issued final accessibility standards for “electronic and information technology” (EIT) covered by Section 508. These standards set forth a definition of EIT and the technical and functional performance criteria necessary for such technology to be considered “accessible.”

IntelliTools has been developing products and technologies accessible to people with disabilities. The following information outlines the accessibility features of *Number Concepts 1 and Number Concepts 2* in the context of the Section 508 standards. The document contains subsets of the EIT Accessibility Standards as published in 36 CFR Part 1194 and provides an analysis of *Number Concepts 1 and Number Concepts 2* as compared to these standards.

## **Product Overview**

*Number Concepts 1 with Oshi the Otter™* is a K-2 level math program for learning counting from 1-20, beginning addition and subtraction, and greater than/less than concepts. Features include build-in assessment, teacher options, online help, continuous auditory support, and engaging graphics.

*Number Concepts 2 with Penn and Gwen™* is a Grade 3-5 level math program for learning skip counting, place value and base ten, and factoring and multiples. Features include build-in assessment, teacher options, online help, continuous auditory support, and engaging graphics.

For more information, please visit our web site at: [www.intellitools.com](http://www.intellitools.com)

## Accessibility Summary

All major features of *Number Concepts 1* and *Number Concepts 2* are accessible via the keyboard. In addition, speech output of on-screen text is provided, as is one- and two-switch scanning, using a supported switch interface such as the *IntelliKeys* keyboard.

## Detailed Accessibility Features

<b>Section 1194.21 Software Applications and Operating Systems - Detail Voluntary Product Accessibility Template</b>		
<i>Criteria</i>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.	<b>Supported.</b>	Number Concepts 1 and 2 are fully keyboard-accessible.
(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.	<b>Supported.</b>	
(c) A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive Technology can track focus and focus changes.	<b>Supported with minor exceptions.</b>	The focus is always shown visually, but may not be available to assistive technology.
(d) Sufficient information about a user	<b>Supported through</b>	All information in

<p>interface element including the identity, operation and state of the element shall be available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.</p>	<p><b>equivalent facilitation.</b></p>	<p>the program is available on-screen as pictures and text. Audio output and feedback is provided.</p>
<p>(e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.</p>	<p><b>Supported.</b></p>	<p>Bitmap usage is consistent throughout the software.</p>
<p>(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.</p>	<p><b>Not Supported.</b></p>	
<p>(g) Applications shall not override user selected contrast and color selections and other individual display attributes.</p>	<p><b>Not Supported.</b></p>	
<p>(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.</p>	<p><b>Supported.</b></p>	
<p>(i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.</p>	<p><b>Not Applicable.</b></p>	<p>Color coding is not used as part of the user interface. Users, however, may choose to give color to objects that they create as part of their document.</p>
<p>(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.</p>	<p><b>Not Applicable.</b></p>	
<p>(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.</p>	<p><b>Supported.</b></p>	

(l) When electronic forms are used, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	<b>Not Supported.</b>	
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<b>Section 1194.22 Web-based Internet information and applications - Detail Voluntary Product Accessibility Template</b>
<b>Not Applicable.</b> Number Concepts 1 and 2 do not include web-based features.

<b>Section 1194.23 Telecommunications Products - Detail Voluntary Product Accessibility Template</b>
<b>Not Applicable.</b> Number Concepts 1 and 2 are not telecommunications Products.

<b>Section 1194.24 Video and Multi-media Products - Detail Voluntary Product Accessibility Template</b>
<b>Not Applicable.</b> Number Concepts 1 and 2 are not video products.

<b>Section 1194.25 Self-Contained, Closed Products - Detail Voluntary Product Accessibility Template</b>
<b>Not Applicable.</b> Number Concepts 1 and 2 are not self-contained, closed products.

<b>Section 1194.26 Desktop and Portable Computers - Detail Voluntary Product Accessibility Template</b>
<b>Not Applicable.</b> Number Concepts 1 and 2 are not desktop or portable computer products.

**Section 1194.31 Functional Performance Criteria - Detail  
Voluntary Product Accessibility Template**

<b>Criteria</b>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive Technology used by people who are blind or visually impaired shall be provided.	<b>Not Supported.</b>	
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive Technology used by people who are visually impaired shall be provided.	<b>Supported with minor exceptions.</b>	Users of Microsoft Windows operating systems can access Microsoft Magnifier and High Contrast Settings in the Accessibility Options to enlarge the screen display. An assistive aid may also be used.
(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for Assistive Technology used by people who are deaf or hard of hearing shall be provided	<b>Not Supported.</b>	Audio output is essential to use of the product.
(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.	<b>Supported through equivalent facilitation.</b>	Audio output is available, and can be amplified through the use of assistive hearing devices. Also, the user can request audio output to be repeated.
(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive Technology used by people with disabilities shall be	<b>Supported</b>	Number Concepts 1 and 2 do not require user speech.

provided.		
<p>(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.</p>	<p><b>Supported with minor exceptions.</b></p>	<p>Major features of Number Concepts 1 and 2 are accessible via the keyboard. In addition, the software is compatible with accessibility devices such as the IntelliKeys keyboard.</p>