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Instructional Materials Technology Information

Title: Eureka Math
Content Area: Math
Publisher: Great Minds
Grades: K-2
Copyright: 2015

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Since EdReports released its first reviews five years ago, the materials landscape has changed dramatically, especially in the area of technology. District questions have evolved from ensuring materials could be accessed on older browsers and versions of operating systems to detailed questions about interoperability, compatibility, security, support, and digital design. These questions have become even more important during the pandemic as districts assess what instructional materials may work best in their communities not just in-person, but also remotely and in hybrid settings. Access to high quality instructional materials by all students is more important than ever, and technology plays an essential role in that access. To help provide technology information for materials that meet alignment criteria in Gateways 1 and 2, EdReports has requested publishers answer the following questions to help consumers better understand the digital design and capabilities of their instructional materials.

- Section 1 provides broader questions most frequently asked of EdReports about the design of materials. These questions are meant to provide higher level, summary information.

- Section 2 provides more fine-grained details on aspects of design and functionality.

Considerations When Reading This Document

- EdReports is seeking the most accurate, descriptive information about curricular products. We are not evaluating quality or desirability, but documenting features in materials to empower local schools and districts with information to select materials that will work best for them given their technological capabilities and instructional vision.

- The information in this document comes directly from publishers. EdReports reviewed the information for clarity and consistency, but did not verify its accuracy. Questions you have regarding any of the reported information should be directed to the publisher of the product.

- Look at the information in the "Details" column carefully. Functionality and digital design can vary greatly depending on how a publisher responded. Most publishers provide granular information for each question to illuminate their responses.

- This document is most effective when paired with questions that relate to your local context and reviewed with both content and IT staff. Consider your district's technological access and capacity amongst students, teachers, and schools.

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Section 1: Usability Snapshot

This section includes questions on digital design and support that allows users quick access to essential information.

* Note:
"Yes with core product" below should be used to indicate functionality in the core materials as reviewed by EdReports that are available without LMS integration.
"Yes with dependencies" below refers to functionality in the materials reviewed by EdReports that are present or accessible only through working in a separate LMS, by utilizing other software as a plug-in, linking externally to sites outside the materials, or if functionality is dependent on a supplemental purchase.

Questions	Check Only One				Details
	Yes with core product	**Yes** with dependencies	**No**	**Under Development**	
Are the materials designed so that students are able to access and complete work online?	✓				• All these materials are available within Eureka Math in Sync and Wit & Wisdom in Sync AND they can be linked within any LMS or through messaging services a school uses • Online work requires 1:1 devices for students and a broadband internet connection to access materials • Virtual manipulatives are available for Eureka Math in Sync; print core texts are required for Wit & Wisdom in Sync
Do the materials support learning in hybrid settings (both in-person and remote learning) concurrently?	✓				• Materials provided mirror directly in-class materials to support students if they are in class or at home • Video lessons taught by Eureka Math and Wit & Wisdom teacher-writers support

					environments with some students in class and others at home
Are tasks, activities, and lessons able to be printed either for in-class use or for use in at-home learning?	✓				● All student-facing materials can be printed for in-class or at-home learning while videos can be viewed on any device and with a broadband internet connection
Is there instruction so students can work independently (or with an adult at home)?	✓				● Video lessons taught by Eureka Math and Wit & Wisdom teacher-writers support environments for independent work ● Teachers can assign student materials and provide instructions and guidance on each assignment to support independent learning
Does the technology facilitate a teacher's ability to differentiate lessons, tasks, or other content for students?	✓				● Technology mirrors in-class work and teachers can respond to that work the same as they would with in-class print materials ● Pre-Module Assessments in Eureka Math Equip provide informed recommendations to teachers how to personalize instruction to individuals, groups, or an entire class ● Teachers can use Eureka Math Affirm to customize technology-driven assessments ● Teachers can customize items and create customized assessments using Eureka Math Affirm. ● Teachers can assess student knowledge of

	✓				Wit & Wisdom module content and assign fillable PDFs (such as additional language development resources or Volume of Reading questions) to individual students or groups of students, based on Affirm assessment results. ● Teachers can assign Wit & Wisdom Vocabulary in Sync videos to individual students or groups of students for specific language practice based on Affirm vocabulary assessment results. ● Teachers can assign Fluency passages and Geodes videos to individual students or groups based on student progress.
Are there tutorials, videos, or other integrated supports in the materials to help educators to understand and/or utilize the materials?	✓				● A user guide and video along with a digital help center that includes FAQs and tutorial videos are all available to support educators in any continuous learning environment
Are there tutorials, videos, or other integrated supports in the materials to help parents/guardians to understand and/or utilize the materials?	✓				● Families can access the user guide and video as well as the digital help center and review how to use Eureka Math in Sync and Wit & Wisdom in Sync with their student
Are all of the following audiences provided access to the product as part of the core purchase?	✓				● Educators, families, and students all have access with varying functionality – for

- parents/guardians - Educators (Teachers, Administrators, etc.) - Students					example, only teachers can assign content to their students and only teachers have access to lesson preparation and planning materials
Are the materials designed to integrate with a Learning Management System (LMS)?		✓			All materials can be linked within a LMS – LTI integration is under development
Does all content conform to the [National Instructional Materials Accessibility Standard](#)?			✓		
Is technical support during day-to-day use primarily the responsibility for the client or the publisher?	✓				Support is provided to teachers and administrators through the digital help center along with phone and email support through the Great Minds support team and collaboration with the client's IT team

Section 2: Technology Checklist

The following checklists are designed to give more detailed information about digital design and technical capabilities in key areas of instructional materials to support state and local decision making. This list reflects details commonly requested by those making purchasing decisions at the state or local level.

Design

Design questions address whether the materials are designed to be used digitally in an in-person environment, remote learning environment, or both. Digital design can vary, often ranging from the ability to access files that are identical to print materials online to doing tasks and assessments as part of the program. The ability to take advantage of design functionality may depend on answers to questions in other sections of the checklist such as internet capabilities, number and type of devices, etc.

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Questions	Check Only One				Details
	Yes with core product	**Yes** with dependencies	**No**	Under Development	
Are the materials designed to be used with both digital and print components? Are there print options available for student-facing materials that could be utilized in a blended digital approach? Is the print content identical, similar, or comparable to the digital?	✓				What are the print options? (check all that apply) ● x Purchase hard-copy books/workbooks ● Photocopies available for purchase ● x Users can print at home ● Eureka Math and Wit & Wisdom provide print materials for purchase by schools, and with the exception of video lessons, all materials are available to print and are effectively identical to the print materials
Is the digital design of the materials intended to replicate a textbook experience?	✓				● Worksheets are fillable PDFs and mirror print student editions exactly ● Assessments can be completed online and also mirror print assessments
Are digital teacher guides available for the materials?	✓				● For Eureka Math in Sync, Eureka Math Navigator, a complete PreK-12 curriculum, and professional development platform, offers all the features of the print teacher editions – the Navigator includes embedded

	✓				PD videos demonstrating key instructional practices and an interactive map of the modules for easy navigation • For Wit & Wisdom in Sync, a digital teacher editions is available with access to all grades, all content included in the print teacher editions, and other functionality to help teachers make the teacher edition their own – in addition, lesson slides are available • Learn Anywhere Plans supplement the digital teacher guides and show how to adapt the scope and sequence of both curricula for distance and hybrid instruction
Do the materials contain videos/animations/simulations for student learning?	✓				• Every lesson has a video written and produced by a Eureka Math or Wit & Wisdom teacher-writer
Is any or all online content dependent on links that are not maintained by the publisher?			✓		• All content is maintained by Great Minds – some lessons includes links to third-party content
Do the materials include opportunities for online collaboration among students?			✓		
Do the materials include built in features for student-to-teacher interaction?	✓				• Students will be able to submit their work within the digital platform and can take online assessments to demonstrate their thinking
Is a 1:1 device ratio required?		✓			• To engage in the materials, a 1:1 device ratio

						is necessary, but as many materials are also printable, families can share a device as needed
Are the assessments contained within the materials able to be securely completed by students online?	✓					• All assessments can be completed online
Is data available about user sessions (e.g., timestamps, content being viewed, callbacks fired, etc...)?		✓				• Assessment data by class, school, or district are available and usage data can be provided upon request by the client
Are there online professional learning supports to help teachers utilize the materials?	✓					• Virtual professional development and coaching delivered by Eureka Math and Wit & Wisdom facilitators is available in addition to the digital product supports

Are there parent/guardian resources available for school systems to utilize:
  • For when there is in-person instruction?
  • For when there is hybrid instruction?
  • For creating continued learning plans for distance learning schedules?
	✓					• Family guides called Family Tip Sheets are available for each curricula and are available in both English and Spanish
						• Learn Anywhere Plans at a module and lesson level are available for teachers so they can customize lessons and pacing as needed for in-person, distance, or hybrid instruction

Learning Management Systems	Blackboard	Canvas	Eduphoria	Google Classroom	ItsLearning	Moodle	Schoology	Other: Please list below
Are the materials configured to work with one or more learning management systems? Check all that apply.	✓	✓	✓	✓	✓	✓	✓	✓

*Deep linking functionality is available regardless of learning platform.

System Access

System access questions address how users access the digital materials and what kind of logins/passwords are accepted/supported/required.

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Questions	Check Only One				Details
	Yes with core product	**Yes** with dependencies	**No**	Under Development	
Is single sign-on supported?	✓				● SSO is supported with Clever or Google.
Can the platform manage staff assigned to multiple schools with a single sign-on?	✓				
Can co-teachers be assigned to multiple classes?				✓	
Can students who move between teachers or schools using the same materials be re-assigned without losing their work/progress?			✓		
Can the platform provide user accounts for staff members (principals and other admin) who are not assigned students?	✓				

	Yes with core product	Yes with dependencies	No	Under Development	Details
Can passwords be reset without assistance from trained IT staff?	✓				• This is supported with manual rostering with a password reset, Clever and Google SSO schools do this with their accounts
When working offline, does the product automatically sync when a connection is re-established?		✓			• Eureka Math in Sync and Wit & Wisdom in Sync do no support offline work with the exception of materials like fillable PDFs – a broadband internet connection is required

Technical Support

Technical Support questions are designed to help users understand what assistance to expect. These details are important to consider alongside local capacity for devices, networks, and use. Considering what level of independence users will have alongside these criteria can help schools and districts reflect on their needs for support.

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Technical Support	Check Only One				Details
	Yes with core product	**Yes** with dependencies	**No**	Under Development	
Is technical support provided to districts during initial set-up and deployment?	✓				• The Great Minds Digital Implementation Team supports schools through this process
Is technical support provided during the duration of the contract?	✓				• The Great Minds Digital Implementation Team supports rostering, sign-on, and licensing

					• The Great Minds Support Team helps with any other digital questions • The Great Minds Implementation Success Team helps with instructional questions
If utilizing a free or trial version, is technical support provided?					N/A
Are there self-service supports for troubleshooting?	✓				• A digital help center is available
Does technical support include planning for emergency access and district support?	✓				• Schools are supported through extenuating circumstances

Compatibility

Compatibility questions address technical compatibility specifications. It is designed to help users understand how the materials will look and operate on various devices. These details are important to consider alongside local capacity for devices, networks, and use. Understanding what devices function best can help determine users' needs for district device or technical support.

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Questions	Check Only One				Details
	Yes with core product	Yes with dependencies	No	Under Development	

Does the product have a native mobile application?			✓		
Is the product browser-based?	✓				
Does the product use responsive design for rendering on smartphones?			✓		
Does the product use responsive design for rendering on tablet devices?	✓				
Does the product use responsive design for rendering on laptop devices?	✓				
Does the product use responsive design for rendering on desktop devices?	✓				
Are all users (students/teachers/staff/admin/parents) permitted to use the product on more than one device (e.g. computer at school and a laptop at home or a smartphone and a laptop)?	✓				

Device Type	Mark box if device is compatible	Oldest operating system/version supported	Newest operating system/version supported	Details Indicate if the materials are designed for a specific device type or if they are generally compatible.
Windows	✓			
Linux	✓			
Windows Tablet	✓			
Apple Laptop/Desktop	✓			
iPhone				If supported, provide details about any differences between devices.
iPad	✓			

Device	Supported			Notes
Android Phone				If supported, provide details about any differences between devices.
Android Tablet	✓			
Chromebook/Chrome OS	✓			
Amazon Fire OS				
Other E-Reader				If supported, specify which e-readers are compatible.
Interactive Whiteboard	✓			• Dependent on browser used on interactive whiteboard

Browser		Operating System						
		Apple		Windows				
	Check if browser is compatible	Oldest version supported	Newest version supported	Oldest version supported	Newest version supported	Linux	Chrome OS	N/A
Chrome	✓							
Firefox	✓							
Safari	✓							
Edge (formerly Internet Explorer)	✓							
Internet Explorer								
Other:____	✓							
Additional Notes: The last two versions of each compatible browser are supported for Windows laptops/desktops, Apple laptops/desktops, Chromebooks, and tablets.								

Accessibility

Curricula with digital capabilities integrate accessible supports in a variety of ways. Accessibility questions pertain specifically to diverse learners who may need specific supports to be able to successfully interact with materials.

Questions	Check Only One				Details
	Yes with core product	Yes with dependencies	No	Under Development	
Screen Readers				✓	• Ships Fall 2020
Screen Magnification Software			✓		
Text Readers				✓	• Ships Fall 2020
Adjustable Print Size		✓			• Depends on type of resource (Zoom is supported within browser)
Speech Input Software			✓		
Header Point Devices			✓		
Motion/Eye Tracking Devices			✓		
Single Switch Entry Devices			✓		
Braille Readers/ Display Devices			✓		
Closed Captioning	✓				• CC is available in both English and Spanish
Alternative Input Devices			✓		
High Color Contrast Display Options		✓			• Supported within certain browsers

Translation of Text to Other Languages	✓				• All materials for Eureka Math in Sync are available in Spanish • Spanish videos are available for both Eureka Math in Sync and Wit & Wisdom in Sync
Bilingual Dictionaries available for students			✓		
Are there required accessories (headsets, speakers)?			✓		
Multiple Playback of audio/video	✓				
Can students adjust the speed of audio/video playback?	✓				
Are these accessibility supports able to be turned on/off?		✓			• Some are controllable by the teacher
Does all browser-based technology satisfy the Web Content Accessibility Guidelines or VPAT?			✓		• Great Minds strives to ensure that all teachers and students have access to quality, accessible instructional materials. While Eureka Math in Sync and Wit & Wisdom in Sync do not currently meet all Section 508 and WCAG 2.0 AA requirements, we are actively working to ensure our products meet these accessibility criteria. When this work is completed, we can provide a VPAT to communicate the product's level of compliance. • Until that time, should a situation arise where alternative access to content is

		required to accommodate accessibility needs, Great Minds can work with the district to provide reasonable support, files, and access.

Additional Technology Specifications

Data Security and Privacy

Data Security and Privacy questions address how student data storage, disposal, and adherence to privacy laws are addressed. If applicable, privacy reports and/or certificates can be found next to the respective indicator.

Questions	Check Only One			Details
	Yes	No	Under Development	
Data Security: Are data elements encrypted at rest, i.e. in a database or file system?	✓			• All datastores are encrypted at rest using AES-256
Data Security: Do the materials refer students to video, content, and other online sources that are not native to the materials?		✓		
Data Security: Does the end-user licensing agreement allow customers to scrape data from the product?	✓			• Great Minds can provide relevant data upon request from a user or district.
Privacy: Is personally-identifying student data provided to, generated by, or stored in any systems used by the product?	✓			• PII is frequently provided by a district as part of the account creation and rostering process, and emails/usernames may be used to provide access to the products.
Privacy: Does the product/vendor make their student privacy policy publicly available?	✓			• Please read more at https://greatminds.org/privacy-policy

Privacy: Does the product conform with FERPA regulations (e.g., allows districts to maintain direct control of the student record, implements permissions to prevent unnecessary disclosures, etc.)?	✓			
Privacy: Has a third-party evaluated the product for FERPA compliance?		✓		
Privacy: Does the product allow registration or data collection from children under the age of 13?		✓		● Students do not self-register, they are registered via their school or district

Installation

Feature/Requirement/Specification	Check Only One			Details
	Yes	No	Under Development	
Is the product downloaded to individual devices: one-time internet connection required?		✓		
Is the product installed on individual computers (from CD-ROM/DVD, flash drive, etc.): no internet connection required?		✓		
Is the product installed on LAN/WAN (school or district server): no internet connection required for teachers/students after installation?		✓		
Required server configuration. Do network admins need to ensure a specific set of domains are white listed to allow the internet traffic to those endpoints?	✓			A safelist is provided at https://digitalsupport.greatminds.org/hc/en-us/articles/360051427053-Technical-Specifications
Does the product support deployment through Mobile Device Management (MDM) systems?		✓		Product is web-based

	✓			
Does the product provide a detailed schedule of updates that minimizes access interruption?	✓			Updates are completed during off hours with no interruption whenever possible
Does the login authentication use district protocols to establish unique and memorable usernames and passwords?		✓		
Is there an option for concurrent user licensing?		✓		

Standards Compliance/Certification	Check all that apply	Details
SIF		If checked, include where customers can verify this information.
CEDS		If checked, include where customers can verify this information.
EDUPUB		If checked, include where customers can verify this information.
Ed-Fi (SIS/ODS)		If checked, include where customers can verify this information.
Ed-Fi (Assessments)		If checked, include where customers can verify this information.
MS Global (Competencies and Academic Standards Exchange)		If checked, include where customers can verify this information.
IMS Global (Comprehensive Learner Record)		If checked, include where customers can verify this information.
IMS Global (Open Badges)		If checked, include where customers can verify this information.
IMS Global (One Roster)		If checked, include where customers can verify this information.
IMS Global (Caliper Analytics)		If checked, include where customers can verify this information.
IMS Global (Question and Test Interoperability (QTI))		If checked, include where customers can verify this information.

IMS Global (Learning Tools Interoperability (LTI))		If checked, include where customers can verify this information.
IMS Global (LTI Advantage)		If checked, include where customers can verify this information.
IMS Global (Common Cartridge)		If checked, include where customers can verify this information.
IMS Global (Lite Common Cartridge)		If checked, include where customers can verify this information.
IMS Global (Open Video)		If checked, include where customers can verify this information.
Other:		If checked, list and include where customers can verify this information.

Implementation and Scalability	Yes/No or Value
What is the average page load time?	2 seconds
What is the required bandwidth per user?	3-5 KB/s for regular use
Are results of stress tests provided to customers?	No
Is a disaster recovery plan for data provided to customers?	No
Are customers provided with a standardized implementation plan to ensure a successful rollout?	No
Does the service level agreement include uptime guarantees of at least 95% excluding planned maintenance/down-times?	No
Does the product require a VPN for off site access?	No