# Instructional Materials Technology Information

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 is requesting 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.

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.

Section 1: Usability Snapshot Section 2: Technology Details

- Design
- System Access
- <u>Technical Support</u>
- Compatibility
- Accessibility
- Additional Technology Specifications



### **Section 1: Usability Snapshot**

This section includes questions on digital design and support that allows users quick access to essential information. Please do not exceed a 150 word limit per question. You may use or remove prompt text in providing additional details. Words in the detail prompt text will not count toward the word limit.

#### \* Note:

"Yes with core product" below should be used to indicate functionality in the materials purchased that are available without LMS integration.

<sup>&</sup>quot;Yes with dependencies" below refers to functionality present or accessible only through working in a separate LMS, by utilizing other software as a plug-in, or linking externally to sites outside the materials.

	(	Check O	nly One	•	
Questions	Yes with core product	Yes with dependencies	No	Under Development	Details
Are the materials designed so that students are able to access and complete work online?	✓				<ul> <li>Students can complete their work in the Great Minds Digital Platform. AND they can be linked within any LMS or through messaging services a school uses</li> <li>Online work requires a 1:1 or 2:1 device for students and a broadband internet connection to access materials</li> <li>Virtual Manipulatives are available.</li> </ul>
In what ways 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
Are tasks, activities, and lessons able to be printed either for in-class use or for use in at-home learning?	abla				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)?	abla		<ul> <li>Teachers can assign student materials and</li> <li>provide instructions and guidance on each assignment to support independent learning</li> </ul>
Does the technology facilitate a teacher's ability to differentiate lessons, tasks, or other content for students?	V		<ul> <li>Technology mirrors in-class work and teachers can respond to that work the same as they would with in-class print materials</li> <li>Pre-Module Assessments in Eureka Math² Equip™ provide informed recommendations to teachers how to personalize instruction to individuals, groups, or an entire class</li> <li>Assessments are customizable in the Great Minds Digital Platform.</li> </ul>
Are there tutorials, videos, or other integrated supports in the materials to help educators to understand and/or utilize the materials?	V		<ul> <li>The Implementation Guide orients educators to the structure and design of Eureka Math<sup>2</sup>®, and to what is available in the digital experience and in print.         The     </li> <li>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</li> </ul>
Are there tutorials, videos, or other integrated supports in the materials to help parents/guardians to understand and/or utilize the materials?	V		<ul> <li>Great Minds® provides a Curriculum         Overview for Families that orients them to         the structure and design of Eureka Math²,         and to what is available in the digital         experience and in print.     </li> </ul>

			<ul> <li>Families can access the user guide and video as well as the digital help center and review how to use Eureka Math<sup>2</sup>.</li> </ul>
Are all of the following audiences provided access to the product as part of the core purchase?  • parents/guardians • Educators (Teachers, Administrators, etc.) • Students	V		Educators, families, and students all have access with varying functionality—for example, only teachers can assign content to their students, and only teachers can access lesson preparation and planning materials.
Are the materials designed to integrate with a Learning Management System (LMS)?	$\checkmark$		All materials can be linked within an LMS—LTI integration that is under development.
Does all content conform to the <u>National</u> <u>Instructional Materials Accessibility Standard</u> ?			Full accessibility is available in the fall of 2023.
Is technical support during day-to-day use primarily the responsibility for the client or the publisher?	Ø		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. You may use or remove prompt text in providing additional details.



#### 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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"Yes with dependencies" below refers to functionality present or accessible only through working in a separate LMS, by utilizing other software as a plug-in, or linking externally to sites outside the materials.

		Check O	nly One	<b>)</b>	
Questions	Yes with core product	Yes with dependencies	No	Under Development	Details
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?	abla				<ul> <li>What are the print options? (check all that apply)</li> <li>_X Purchase hard-copy books/workbooks</li> <li> Photo copies available for purchase</li> <li>X Users can print at home</li> </ul>
Is the digital design of the materials intended to replicate a textbook experience?	V				<ul> <li>Worksheets are PDFs available with annotation and mirror print student editions exactly</li> <li>Assessments can be completed online and also mirror print assessments</li> </ul>



Are digital teacher guides available for the materials?	$oldsymbol{ol}oldsymbol{ol}oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}oldsymbol{ol}}}}}}}}}}}}}}}$			<ul> <li>A digital teacher edition 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</li> <li>Are guides available to parents/guardians at home? No.</li> <li>Do teacher planning materials connect to student-facing lessons? Yes.</li> <li>Are there any additional costs for these resources? No.</li> </ul>
Do the materials contain videos/animations/simulations for student learning?	V			<ul> <li>Eureka Math² contains animations and Geogebra interactivity throughout the program. These animations and interactivity appear numerous times throughout a topic.</li> <li>The curriculum also contains context videos for many of our word problems.</li> </ul>
Is any or all online content dependent on links that are not maintained by the publisher?			<b>∀</b>	
Do the materials include opportunities for online collaboration among students?		$\checkmark$		Inside of digital lessons, students may share their responses with other students. Students may build upon other student work inside of these digital lessons.
Do the materials include built in features for student-to-teacher interaction?		V		<ul> <li>Teachers can view student's screens via "Live" mode.</li> <li>Teachers may control the student pacing through live mode lessons and push content out to students.</li> <li>Teachers may leave feedback for students inside of our assignments space.</li> </ul>

Is a 1:1 device ratio required?			abla	<ul> <li>We recommend a 2:1 ratio for students during class when utilizing a digital lesson. Student devices are not required, but are recommended.</li> </ul>
Are the assessments contained within the materials able to be securely completed by students online?	V			<ul><li>Is this true of all assessments? Yes.</li><li>Are assessments editable by teachers? Yes.</li></ul>
Is data available about user sessions (e.g., timestamps, content being viewed, callbacks fired, etc)?		V		<ul> <li>Assessment data by class, school, or district</li> <li>are available and usage data can be provided upon request by the client.</li> </ul>
Are there online professional learning supports to help teachers utilize the materials?	V			<ul> <li>Virtual professional development and coaching delivered by Eureka Math² facilitators is available in addition to the digital product supports.</li> <li>There is also the opportunity to for schools/districts to customize professional learning for a fee.</li> </ul>
<ul> <li>Are there parent/guardian resources available for school systems to utilize:</li> <li>For when there is in-person instruction?</li> <li>For when there is hybrid instruction?</li> <li>For creating continued learning plans for distance learning schedules?</li> </ul>	V			Family guides are available in the Lesson Recap for each lesson. Students may access all materials inside of their student digital experience.

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	abla	$\checkmark$		$\checkmark$	V	abla	V	Ø



learning management systems? Check all that apply.						
Deep linking functionality is a	vailable reg	ardless of lec	arning platfo	rm.		

### **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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		Check C	nly One	•	
Questions	Yes with core product	Yes with dependencies	No	Under Development	Details
ls single sign-on supported?					SSO is supported with Clever, Google, or ClassLink (OAuth 2.0). LTI v1.3 SSO is available with Schoology, Brightspace, and Canvas
Can the platform manage staff assigned to multiple schools with a single sign-on?	V				
Can co-teachers be assigned to multiple classes?	V				Yes, multiple teachers can be assigned to a class. The process depends on the district's rostering method but is supported for districts that manually roster and for districts that use an automated rostering method (such as



				Clever, ClassLink, or OneRoster). This is managed at the administrator level.
Can students who move between teachers or schools using the same materials be re-assigned without losing their work/progress?		V		Data do not automatically transfer if a student changes classes or schools. The student is archived in their previous class or school, and their assessment and performance data is available for an administrator to export and provide to their new teacher/school. Additionally, if the assessment data is within the current school year, the student's new teacher can view their assessment scores by running a specific report from their reporting dashboard.
Can the platform provide user accounts for staff members (principals and other admin) who are not assigned students?	<b>V</b>			
Can passwords be reset without assistance from trained IT staff?	V			Districts that manually roster have a self-reset option available on the log-in page, or users with an administrator role can set a temporary password for the user's account. For districts that use an automated rostering method, logins are managed by the district and need to be reset by their staff.
When working offline, does the product automatically sync when a connection is re-established?			abla	

# **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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<sup>\*</sup> Note:

"Yes with dependencies" below refers to functionality present or accessible only through working in a separate LMS, by utilizing other software as a plug-in, or linking externally to sites outside the materials.

	C	heck C	only Or	ie		
Technical Support	Yes with core product	Yes with dependencies	No	Under Development	Details	
Is technical support provided to districts during initial set-up and deployment?	$\checkmark$				The Great Minds Digital Implementation Team supports schools through this process	
Is technical support provided during the duration of the contract?	$\checkmark$				The Great Minds Digital Implementation Team supports rostering, sign-on, and licensing.	
If utilizing a free or trial version, is technical support provided?						
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.

#### \* Note:

Check Only One

Details

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<sup>&</sup>quot;Yes with dependencies" below refers to functionality present or accessible only through working in a separate LMS, by utilizing other software as a plug-in, or linking externally to sites outside the materials.

	Yes with core product	LMS Dependent	No	Under Development	
Does the product have a native mobile application?			<b>V</b>		
ls the product browser-based?					
Does the product use responsive design for rendering on smartphones?				abla	
Does the product use responsive design for rendering on tablet devices?	<b>✓</b>				
Does the product use responsive design for rendering on laptop devices?	<b>V</b>				
Does the product use responsive design for rendering on desktop devices?	<b>V</b>				
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)?					No additional software downloads or licare necessary.

Device Type	Mark box if device is compatible	Oldest operating system/version supported	Newest operating system/version supported	<b>Details</b> Indicate if the materials are designed for a specific device type or if they are generally compatible.
Windows	Χ			
Linux	Χ			
Windows Tablet	Χ			
Apple Laptop/Desktop	Χ			
iPhone				If supported, provide details about any differences between devices. Not applicable.

iPad	Χ		
Android Phone			If supported, provide details about any differences between devices.
Android Tablet	Χ		
Chromebook/Chrome OS	Χ		
Amazon Fire OS			
Other E-Reader			If supported, specify which e-readers are compatible.
Interactive Whiteboard	Χ		

_		Operating System						
Brov	wser	Apple		Wind	dows			
	Check if browser is compatible	Oldest version supported	Newest version supported	Oldest version supported	Newest version supported	Linux	Chrome O\$	N/A
Chrome	Χ							
Firefox	Χ							
Safari	Χ							
Edge (formerly Internet Explorer)	Х							
Internet Explorer								
Other:	Х							

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.

		Check O	nly One	ı	
Questions	Yes with core product	Yes with dependencies	No	Under Development	Details
Screen Readers	$\checkmark$				
Screen Magnification Software	$\checkmark$				
Text Readers	$\checkmark$				
Adjustable Print Size		V			
Speech Input Software					
Header Point Devices			$\checkmark$		
Motion/Eye Tracking Devices			$\checkmark$		
Single Switch Entry Devices			✓		
Braille Readers/ Display Devices	✓				
Closed Captioning					
Alternative Input Devices					
High Color Contrast Display Options	✓				
Translation of Text to Other Languages				✓	K–5 Spanish is available in the fall of 2023.

Bilingual Dictionaries available for students					
Are there required accessories (headsets, speakers)?			V		<ul> <li>Specify if they are provided with the materials or must be acquired separately.</li> </ul>
Multiple Playback of audio/video	$\checkmark$				
Can students adjust the speed of audio/video playback?	$\checkmark$				
Are these accessibility supports able to be turned on/off?		V			Some are controllable by the teacher.
Does all browser-based technology satisfy the Web Content Accessibility Guidelines or <a href="VPAT">VPAT</a> ?				abla	<ul> <li>VPAT available May 2023.</li> </ul>

# **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		Dataila	
		No	Under Development	Details	
<b>Data Security:</b> Are data elements encrypted at rest, i.e. in a database or file system?	abla			<ul> <li>All datastores are encrypted at rest using AES-256.</li> </ul>	

<b>Data Security:</b> Do the materials refer students to video, content, and other online sources that are not native to the materials?		$\checkmark$	If yes,  Is it a closed system? If no, how does it direct out of the environment?
<b>Data Security:</b> Does the end-user licensing agreement allow customers to scrape data from the product?	V		Administrators can export assessment data in CSV format.
<b>Privacy:</b> Is personally-identifying student data provided to, generated by, or stored in any systems used by the product?	V		Student data is provided by a district as part of the account creation and rostering process. This includes a student's first and last name, student ID, account username, grade level, assigned classes, and assigned school(s). Email addresses can be provided optionally.
<b>Privacy:</b> Does the product/vendor make their student privacy policy publicly available?			Please read more at <a href="https://greatminds.org/privacy-policy">https://greatminds.org/privacy-policy</a>
<b>Privacy:</b> 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.)?	<b>∀</b>		
<b>Privacy:</b> Has a third-party evaluated the product for FERPA compliance?		✓	If yes,  Identify the third party who conducted the evaluation and provide a link to the report.
<b>Privacy:</b> Does the product allow registration or data collection from children under the age of 13?		<b>▽</b>	Students do not self-register. They are registered via their school or district. Great Minds collects rostering data from districts to roster students. See Section VIII of Great Minds privacy policy for more information on collection of student data:  https://greatminds.org/privacy-policy

# Installation

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Feature/Requirement/Specification	Yes	No	Under Development	Details
Is the product downloaded to individual devices: one-time internet connection required?		<b>V</b>		
Is the product installed on individual computers (from CD-ROM/DVD, flash drive, etc.): no internet connection required?		<b>✓</b>		If yes,  • Estimate time per device required for setup, indicate if support is provided, and if local IT staff is needed.
Is the product installed on LAN/WAN (school or district server): no internet connection required for teachers/students after installation?		V		
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?	$\checkmark$			
Does the product support deployment through Mobile Device Management (MDM) systems?		✓		If yes,  • Identify which systems are compatible.
Does the product provide a detailed schedule of updates that minimizes access interruption?	$\checkmark$			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?	V			<ul> <li>Logins are managed by the district, either through their rostering data source (SIS) or through the Manage console available to administrators in the Great Minds Digital Platform.</li> </ul>
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))	https://site.imsglobal.org/certifications/great-minds-pbc/great-minds-digital-platform
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.

Once this document is complete and ready to submit to EdReports, please fill-out a <u>Technology Information Document Submission</u> <u>Certification</u> to certify that the information is final and accurate.