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
- Technical Support
- 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.
"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.

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?	x				Students have multiple entry points to the Math Nation content. They can: 1. Log into the Math Nation application through sso or by entering their login & passwords. 2. Log into their LMS to view lesson components and assignments pushed to them by their teachers. Students are required to have their own device for their digital notebook experience, but may share a device to view instructional materials and videos. Students are required to have internet connection to access the web application for their digital version of Coursework. However, we also have a Math Nation mobile app (in both the App Store and Google Playstore) for students to view instructional videos. Students may

					download videos to view later when internet connections/wifi is not available.
In what ways do the materials support learning in hybrid settings (both in-person and remote learning) concurrently?		xx			The Math Nation platform is designed to be user-friendly and a 1:1 experience with the book. Anything a student can do in the book has a corresponding digital component that allows for the same activity without the need for training and additional software. Students can engage in their digital notebook as part of remote-only learning or as a mechanism used within a hybrid setting. Additionally, the Study Expert videos provide asynchronous instruction for the written materials.
Are tasks, activities, and lessons able to be printed either for in-class use or for use in at-home learning?		x			The printable version of each lesson is provided for in-class or at-home learning. Any activities that are primarily digital, have a corresponding print alternative.
Is there instruction so students can work independently (or with an adult at home)?		x			If yes, • Each lesson component comes with a Study Expert (SE) video that provides asynchronous instruction for that component with a certified educator. There are multiple SE videos available per activity that have various speeds, styles, backgrounds, and languages. • Each lesson has activities that are either student-led, teacher-led, collaborative, or independent. The videos associated with each component are carefully crafted to maintain the intended mathematical experience for the student with an asynchronous Study Expert who provides

					the same level of support a teacher would in the classroom. The videos are available online and offline through the Math Nation app.
					• Adult supervision and support is minimal because of the Study Expert videos. These videos are also helpful for adults who wish to provide support to their student, as it can help the adult better understand what the student is learning to ensure appropriate support.
Does the technology facilitate a teacher's ability to differentiate lessons, tasks, or other content for students?				x	If yes, • The lesson expectations are the same for all students, but our technology provides some differentiated options. Our Study Expert videos are available in multiple speeds, instructional styles, cultural backgrounds, and languages. Students can find the instructor that best meets their needs. Additionally, any additional support called for by the material for Multilingual Learners or Students With Disabilities is addressed in the videos. The platform has multiple accessibility features including screen reader mode, notepad, font-changing, translation to 105 languages in the click of a button, dyslexia-friendly mode, and much more. • Any auto-graded activity provides immediate feedback to the student. The Check Your Understanding (lesson-level) provides scoring and review functionalities. The Test Yourself (unit-level)

				provides the same at the Check Your Understanding **plus** solution videos for the exact problems the students worked out.
				• In the Teacher Edition on the platform, teachers will have access to specific instructional guidance at both the lesson and course levels. Additionally, in-platform reporting will provide actionable intel on the performance and participation of students.
				• The content availability is set to 'open' for all students to be able to access content at any time. Teachers have access to an assessment management tool, EdgeXL, that allows them to assign standard-level content from any Math Nation course, customized in the order they prefer, with assessment settings (re-takes, test correction, show answer, number of attempts, etc) available for customization. Teachers also have access to On-Ramp, which allows them to assign pre-requisite **skills** in a mastery-based approach to fill in student deficits from prior grade levels.
Are there tutorials, videos, or other integrated supports in the materials to help educators to understand and/or utilize the materials?		x		Teachers have 24/7 access to the Study Expert videos that are available to the students. This provides private access for educators to see multiple vantage points of how an activity can be taught, improving their content knowledge for anything they may be uncomfortable or less experienced with. Additionally, Teachers have 24/7 access to teacher-exclusive videos called Teacher Prep videos. Each video is 5-10 minutes

					in length and provide a pedagogical overview of the intent of a lesson, how it was designed, misconceptions to be aware of, and implementation issues to avoid.
Are there tutorials, videos, or other integrated supports in the materials to help parents/guardians to understand and/or utilize the materials?	X				If yes, • Each unit comes with a dedicated resource for families called "Family Materials". These materials are broken down by groups of lessons to provide an overview of the concepts being taught in the unit in a structured way for families to follow along and provide support to their student. These are written support available in English and Spanish and include overview, instructional guidance, and sample questions with solutions and explanations. Additionally, each unit comes with a family support video that provides an overview of the unit from the lens of family support. These videos help families navigate the platform and highlight key supporting resources (such as the Study Expert videos) for that specific unit, including additional ways that they can support their student in their learning at home. There are also content-specific support videos available for each grouping of lessons to help the families better understand the concepts that are being taught.

Are all of the following audiences provided access to the product as part of the core purchase? ● parents/guardians ● Educators (Teachers, Administrators, etc.) ● Students			x		The following audiences have access to the Math Nation digital product: ● Students (access to the digital notebook, as well as additional features such as, EdgeXL and On-Ramp) ● Teachers (access to a digital Teacher Guide, student digital content, Reports, as well as EdgeXL assignments for creation and On-Ramp Dashboard] ● Administrators (access to Usage Reports, digital Teacher Guides, Coursework reporting for school/district level, EdgeXL) Parents/guardians do not have a login, but can view Math Nation content using their child's account logins. They do not have access to their child's performance and data in Math Nation. This is shared by the teacher if needed.
Are the materials designed to integrate with a Learning Management System (LMS)?	x				Yes. All Math Nation Coursework and EdgeXL assessments can be integrated with a LMS. The most common LMS integrations are: Canvas, Schoology, Safari Montage, and Google Classroom. If users do not integrate with LTI 1.3, they can also access Math Nation by logging in through SSO or manual logins.
Does all content conform to the [National Instructional Materials Accessibility Standard](#)?	x				Math Nation content does conform with NIMAS technical standard.

Is technical support during day-to-day use primarily the responsibility for the client or the publisher?		x			Primary responsibility for technical support during day-to-day use lies with the publisher. We provide a dedicated help desk and regular updates to assist. However, clients are encouraged to utilize the Teacher Wall to ask questions about common issues to streamline the support process.

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

Question					Response
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?	x				If yes, ● The print material for the course includes a two-volume color set with perforated pages for students to write in. The Teacher Edition is also two volumes and follows along with the Student Print Edition. The digital notebook corresponds one-to-one with the Student Print Edition so that it can be implemented in any model, including hybrid. Also, if a student loses their book, they are able to switch to the digital notebook without losing any features or content.
Is the digital design of the materials intended to replicate a textbook experience?	x				If yes, ● The digital notebook is a one-to-one correspondence to the print material. The print material is designed to be the students' core textbook material, but with ample whitespace so that it is not just written content, but also an print interactive experience that can serve as a note-taking and dynamic experience for students all in one location.
Are digital teacher guides available for the materials?	x				If yes, ● Teachers have access to both the student and teacher edition online. By toggling to "Teacher Edition" on the platform, teachers will have access to exclusive unit and lesson level resources specific for the teacher audience (i.e. answer keys, teacher guide pages, Teacher Prep Video, etc). ● The teacher guides are only available to users tagged as teacher/faculty/staff through the district rostering system. Parents do not have

					immediate access to the resources for the teacher audience. ● Each teacher planning page corresponds to the student lesson. Teachers are able to see the 'student view' of the material alongside of the teacher resource content. ● The teacher guide is included with student guide purchases (varies by state).
Do the materials contain videos/animations/simulations for student learning?		X			If yes, ● Every lesson has Study Expert videos for all lesson activities (excluding Cool-Down's). There is a Teacher Prep video for ever lesson. ● All videos and resources are housed within the platform and controlled/managed in-house.
Is any or all online content dependent on links that are not maintained by the publisher?		X			If yes, ● Math Nation provides the link to the Illustrative Mathematics "Community Created Resources" from the teacher side of the platform. This is the only direct link to content outside of the Math Nation platform.
Do the materials include opportunities for online collaboration among students?			X		If yes, ● In most lessons, there are specific lesson elements and activities that require students to work together in small groups or with a partner. The content itself creates opportunities for collaboration. It does not provide a space for this to happen synchronously, but it coupled with another platform, it could occur. Some users of our platform have access to a Student Wall where they can post questions and

					collaborate with other students in the same course in real time.
Do the materials include built in features for student-to-teacher interaction?		X			**If yes,** • Some users of our platform have access to a Student Wall where they can post questions and collaborate with other students in the same course in real time. The wall is monitored by "Wall Watchers" who are the adults that support the students. Teachers have access to this wall and can create and respond to posts as well.
Is a 1:1 device ratio required?			X		**If no,** • The device ratio is dependent upon the implementation method and model of the purchasing district or school.
Are the assessments contained within the materials able to be securely completed by students online?	X				**If yes,** • Digital assessments created through EdgeXL can be completed online securely with scrambled answers and other online administration features. • The print-based assessments are available in Microsoft Word format for editing. Assessments created digitally in EdgeXL can be customized with question choices, ordering, and delivery preferences.
Is data available about user sessions (e.g., timestamps, content being viewed, callbacks fired, etc...)?	X				**If yes,** • Teachers and district admin have access to reports that will show the students participation and performance data such as scoring, time spent, etc.

Are there online professional learning supports to help teachers utilize the materials?	x				If yes, ● There is embedded professional development within the platform for each lesson. There are detailed Teacher Edition support, Teacher Prep videos, Support Videos, and a Teacher Wall where teachers can ask support questions.
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?			x		

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.		x		x			x	Safari Montage

If the materials integrate with any of the LMS above, include information here about any additional costs and which version of your materials and the LMS was tested.

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?	x				If yes, • Rostering and SSO is available with Clever and Classlink,
Can the platform manage staff assigned to multiple schools with a single sign-on?	x				
Can co-teachers be assigned to multiple classes?	x				If yes, • If using Clever or Classlink, it would be set up there. If not, it would be completed through Manual Rostering or added manually within the platform.
Can students who move between teachers or schools using the same materials be re-assigned without losing their work/progress?	x				

Can the platform provide user accounts for staff members (principals and other admin) who are not assigned students?	x				If yes, ● There are both school admin accounts and district admin accounts that have specific viewing rights based on the user role.
Can passwords be reset without assistance from trained IT staff?	x				If yes, ● For rostered users, this would be handled through traditional SSO processes. For non-rostered users, there are internal Math Nation platform abilities for password reset and recovery.
When working offline, does the product automatically sync when a connection is re-established?	x				

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?	x				If yes, ● Math Nation has a dedicated integration team available to support each school year

					for student rostering issues. There is also a dedicated customer support team who assigns help tickets to the appropriate technical teams to ensure that customers are able to access the materials.
Is technical support provided during the duration of the contract?	x				If yes, On the platform is a "feedback" button for non-student users. This allows them to reach out to our support team with issues, concerns, or help requests. There is also a 1-800 number and help email that users can leverage to get support. This is available throughout the length of the contract.
If utilizing a free or trial version, is technical support provided?	x				
Are there self-service supports for troubleshooting?	x				If yes, There is a floating support portal available on every page of the content in the platform.
Does technical support include planning for emergency access and district support?	x				

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	LMS Dependent	**No**	Under Development	
Does the product have a native mobile application?	X				
Is the product browser-based?	X				Also includes a mobile app for videos
Does the product use responsive design for rendering on smartphones?	**X**				
Does the product use responsive design for rendering on tablet devices?	**x**				
Does the product use responsive design for rendering on laptop devices?	X				
Does the product use responsive design for rendering on desktop devices?	X				
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)?	X				If yes, ● Additional software downloads or licenses are not required.

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	X			
Linux	X			

Windows Tablet	x			
Apple Laptop/Desktop	x			
iPhone	x			If supported, provide details about any differences between devices.
iPad	x			
Android Phone	x			If supported, provide details about any differences between devices.
Android Tablet	x			
Chromebook/Chrome OS	x			
Amazon Fire OS	x			
Other E-Reader	☐			If supported, specify which e-readers are compatible.
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	x☐						Latest version	
Firefox	☐							
Safari	x☐		Latest version					
Edge (formerly	x☐				Latest version			

Internet Explorer)									
Internet Explorer	☐								
Other:____	☐								
Additional Notes:									

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	x				
Screen Magnification Software	x				
Text Readers	x				
Adjustable Print Size	x				
Speech Input Software	x				
Header Point Devices	x				
Motion/Eye Tracking Devices			x		

					Comments
Single Switch Entry Devices		X			Devices can be supported by not integrated into the platform
Braille Readers/ Display Devices		X			Devices can be supported by not integrated into the platform
Closed Captioning	X				
Alternative Input Devices		X			Devices can be supported by not integrated into the platform
High Color Contrast Display Options	X				
Translation of Text to Other Languages	X				If yes, • Over 100 languages
Bilingual Dictionaries available for students			X		Glossary available in English, Spanish, Portuguese, Haitian Creole, and American Sign Language
Are there required accessories (headsets, speakers)?				X	If yes, • Specify if they are provided with the materials or must be acquired separately.
Multiple Playback of audio/video	X				
Can students adjust the speed of audio/video playback?	X				
Are these accessibility supports able to be turned on/off?	X				If yes, • All: i.e. screen reader, font, languages, dyslexia friendly mode
Does all browser-based technology satisfy the Web Content Accessibility Guidelines or VPAT?	X				Math Nation is WCAG 2.1 AA compliant. VPAT is available for sharing.

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?	X			If yes, • All data is encrypted in-transit using HTTPS/TLS and at-rest using AES-256 encryption protocols.
Data Security: Do the materials refer students to video, content, and other online sources that are not native to the materials?		X		If yes, • Is it a closed system? If no, how does it direct out of the environment?
Data Security: Does the end-user licensing agreement allow customers to scrape data from the product?		X		
Privacy: Is personally-identifying student data provided to, generated by, or stored in any systems used by the product?	X			If yes, **Student Required Data** • Student grade level • Student scheduled courses • Assigned Teacher names • Local (School district) ID number • State ID number • Vendor/App assigned student ID number • Student First and Last • Student In-App Performance (assessments completed within the platform) • Student generated content; writing, pictures etc. **Teacher Required Data**

				• Teacher Email
				• Teacher scheduled courses
				• Local (School district) ID number
				• Vendor/App assigned teacher ID number
				• Teacher app username
				• Teacher app passwords
				• Teacher First and Last
				• Teacher generated content; writing, pictures etc.
Privacy: Does the product/vendor make their student privacy policy publicly available?	X			If yes, • https://acceleratelearning.com/tech-and-legal/#privacy-notice
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.)?	X			
Privacy: Has a third-party evaluated the product for FERPA compliance?			X	If yes, • Identify the third party who conducted the evaluation and provide a link to the report.
Privacy: Does the product allow registration or data collection from children under the age of 13?	X			If yes, • Accelerate Learning does not have a COPPA Safe Harbor certificate.

Installation

Feature/Requirement/Specification	Check Only One			Details
	Yes	**No**	**Under Development**	
Is the product downloaded to individual devices: one-time internet connection required?		X		

Is the product installed on individual computers (from CD-ROM/DVD, flash drive, etc.): no internet connection required?		X		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?		X		
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?		X		If yes, • We do suggest placing ***.acceleratelearning.com on your approved list for website traffic and email to ensure access.**
Does the product support deployment through Mobile Device Management (MDM) systems?		X		If yes, • Identify which systems are compatible.
Does the product provide a detailed schedule of updates that minimizes access interruption?		X		
Does the login authentication use district protocols to establish unique and memorable usernames and passwords?	X			If yes, • Unique ids are provided during the registration process by the district to Accelerate Learning If other, • Specify the protocols.
Is there an option for concurrent user licensing?	X			Concurrent user licensing in that students can access their account on multiple devices. If the intent of this component is that users have the ability to share accounts, the answer changes to no.

Standards Compliance/Certification	Check all that apply	Details

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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)	x	https://site.imsglobal.org/certifications/accelerate-learning/mathnation
IMS Global (Caliper Analytics)		If checked, include where customers can verify this information.
IMS Global (Question and Test Interoperability (QTI))	x	https://site.imsglobal.org/certifications/accelerate-learning/mathnation
IMS Global (Learning Tools Interoperability (LTI))		
IMS Global (LTI Advantage)	x	https://site.imsglobal.org/certifications/accelerate-learning/mathnation
IMS Global (Common Cartridge)		If checked, include where customers can verify this information.
IMS Global (Thin Common Cartridge)	x	https://site.imsglobal.org/certifications/accelerate-learning/mathnation
IMS Global (Open Video)		If checked, include where customers can verify this information.
Other: IMS Global (OneRoster) IMS Global (Data Privacy)	x	https://site.imsglobal.org/certifications/accelerate-learning/mathnation

Implementation and Scalability	Yes/No or Value
What is the average page load time?	Content pages load at an average rate of less than 1 second. Dependencies exist upon the end users network speed also. Report load time is dependent upon the size of data sets with an average load time under 2 seconds.
What is the required bandwidth per user?	We do not have a minimum requirement.
Are results of stress tests provided to customers?	Stress test summaries can be provided once an executed contract is in place.
Is a disaster recovery plan for data provided to customers?	The plan can be provided once an executed contract is in place.
Are customers provided with a standardized implementation plan to ensure a successful rollout?	Math Nation provides various implementation support models that are customized based on multiple factors addressed between the district and their account executive.
Does the service level agreement include uptime guarantees of at least 95% excluding planned maintenance/down-times?	Yes
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 Technology Information Document Submission Certification to certify that the information is final and accurate.