Instructional Materials Technology Information

Title: Fishtank Math AGA

Content Area: Math

Publisher: Fishtank Learning

Grades: HS

Copyright: 2021

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.

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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. Please do not exceed a 150 word limit per question. You may link to other information about your product. You may also 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.
"Under Development" below should include a timeline of the development and when it will be available for use.

Design Overview	Details
What components are included in the digital materials?	Fishtank curriculum is a web-based product, all of which is accessible digitally online.
What is the learning design of the digital materials?	The curriculum is provided in an easy to navigate platform with full control given to the user.
What research is the basis for the learning design of the digital materials?	NA

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 access materials online but the materials are not designed to be completed online.

Question					Response
In what ways do the materials support learning in hybrid settings (both in-person and remote learning) concurrently?		x			All materials are accessible online and able to be downloaded. We currently do not have an integrated LMS. The curriculum was initially designed to be used in classrooms. Teachers have experienced success also using the materials for remote learning. Some schools have printed packets for their students and some have posted lesson content online via other platforms. Guidance is also provided on suggested videos to use to support student learning at home and how to adjust pacing when needed.
Are tasks, activities, and lessons able to be printed either for in-class use or for use in at-home learning?	x				Materials can be downloaded and printed from the site.
Is there instruction so students can work independently (or with parent/guardian support remotely)?	x				Each lesson includes a clear objective and smaller criteria for success that outline the goals of the lesson. Each Anchor Problem includes guiding questions that help scaffold and engage students in the problem. These can be accessed by students and/or guardians at home on the site. Teachers can use the guidance in the lesson plan to record videos of themselves working through examples and teaching concepts. These videos can be shared with students via any LMS.
Does the technology allow the teacher to provide feedback to students within the system?			x		Fishtank materials are highly customizable. Teachers can adjust lesson pacing and unit placement as needed. There is no technology to

					differentiate automatically based on student responses. The technology does not provide any recommendations to the teacher regarding how to differentiate the content.
Does the technology automatically generate feedback directly to students as they complete assignments?			x		
Does the technology automatically generate content to the student based on their own responses?			x		
Does the technology automatically recommend content to the teacher based on student responses?			x		
Does the technology allow the teacher to have control over differentiating lessons, tasks, or other content for students?			x		
Are there tutorials, videos, or other integrated supports in the materials to help **educators** to understand and/or utilize the materials?			x		In the Teacher Tools, teachers have access to resources that help them understand the components of a Fishtank Lesson and how to plan for a unit and a lesson.
Are there tutorials, videos, or other integrated supports in the materials to help **parents/guardians** to support student learning?			x		
Are educators (teachers, administrators, etc.) provided access to the product as part of the core purchase?	x				Educators are provided full access to the product. Fishtank High School Math Curriculum is free to all users.
Are students provided access to the product as part of the core purchase?	x				Students also have access to the curriculum as it is an Open Educational Resource. However, some aspects of the curriculum are accessible only with the creation of a free account.

Are parents/guardians provided access to the product as part of the core purchase?	X				Parents and guardians have access to the curriculum and create a free account to access all of the resources.
Does all content conform to the [National Instructional Materials Accessibility Standard](#) (a technical standard used by publishers to produce source files that may be used to develop multiple specialized formats for students with print disabilities)?			X		
Is technical support during day-to-day use primarily the responsibility of the client?	X				
Are the materials designed to integrate with a Learning Management System (LMS)?			X		

The materials are configured to work with one or more of the following Learning Management Systems (LMS):		
LMS	**Check all that apply**	**Details**
Blackboard		The Fishtank High School math curriculum is currently not configured to work with any LMS. However, it may be a feature that is added in the future with consideration to feedback and demand.
Canvas		
Eduphoria		
Google Classroom		
ItsLearning		
Moodle		

Schoology		
Other: Please list		

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	
Are there print options available for student-facing materials that could be utilized in a blended digital approach?	x				If yes, • What are the print options? (check all that apply) _____ Purchase hard-copy books/workbooks

					_____ Photo copies available for purchase ___x__ Users can print at home • Add any additional details.
Are the materials designed to be used with both digital and print components?			X		
Is the digital design of the materials intended to replicate a textbook experience?			X		
Are digital teacher guides available for the materials?			X		
Do the materials contain videos for student learning?			X		
Do the materials contain animations for student learning?			X		
Are there digital manipulatives/simulations for students to use?			X		Some lessons include links to sites outside of Fishtank Learning that have simulations for students to use.
Is any or all online content dependent on links that are not maintained by the publisher?	X				Links are provided within lessons, such as in the Problem Set section and Tips for Teachers. These links are to trusted sites that include additional content resources for the lesson. They are not required for the lesson.
Does the technology include the ability for students to explain their thinking on tasks/activities/problems?			X		
Does the technology allow students to upload images and/or files of their work for the teacher to access?			X		

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Question					Notes
Do the materials include opportunities for online collaboration among students?			X		
Do the materials include built-in features for student-to-teacher interaction?			X		
Is there on-demand, online, professional learning support to help teachers utilize the materials?			X		Professional Learning is available with our 3-8 program but not currently for high school.
Are there parent/guardian resources available for school systems to utilize when there is in-person instruction?			X		
Are there parent/guardian resources available for school systems to utilize when there is hybrid instruction?			X		
Are there parent/guardian resources available for school systems to utilize when creating continued learning plans for distance learning schedules?			X		
Is a 1:1 device ratio required?			X		
Are the assessments contained within the materials able to be securely completed by students online?			X		
Is data available about student user sessions (e.g., timestamps, content being viewed, callbacks fired, etc...)?			X		
Is data available about teacher user sessions (e.g., timestamps, content being viewed, callbacks fired, etc...)?			X		

Systems Access

Systems 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				Sign in with Google is supported
Can the platform manage staff assigned to multiple schools with a single sign-on?			x		
Can co-teachers be assigned to multiple classes?			x		
Can students who move between teachers or schools using the same materials be re-assigned without losing their work/progress?					NA - No student progress is saved on our platform.
Can the platform provide user accounts for staff members (principals and other	x				

administrators) who are not assigned students?				
Can passwords be reset without assistance from trained IT staff?	x			
When working offline, does the product automatically sync when a connection is re-established?				NA

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				Tech support should not be necessary, however Fishtank Learning responds to technical issues raised by teachers in day-to-day use within 48 hours.
Is technical support provided during the duration of the contract?	x				
If utilizing a free or trial version, is technical support provided?	x				

| Are there self-service supports for troubleshooting? | | | x | | |
| 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				
Does the product use responsive design for rendering on smartphones?	**x**				
Does the product use responsive design for rendering on tablet devices?	**x**				

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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			

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			Our content is browser based so dependent upon the browser version and not the OS version.
Linux	x			"
Windows Tablet	x			"
Apple Laptop/Desktop	x			"
iPhone	x			"
iPad	x			"
Android Phone	x			"
Android Tablet	x			"
Chromebook/Chrome OS	x			"
Amazon Fire OS	x			
Other E-Reader	☐			
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	21	83	21	83	83	83	
Firefox	X	28	77	28	77	77	77	
Safari	X	6.1	13					
Edge (formerly Internet Explorer)	X	12	83	12	83	83	83	
Internet Explorer	X	8	11	8	11	11	11	
Other:__Brave	X		1		1	1	1	
Additional Notes: We use a variety of build systems to make sure that our CSS and JS polyfills for all browser types								

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.

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Supports	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		
Single Switch Entry Devices			X		
Braille Readers/ Display Devices				X	
Closed Captioning	X				
Alternative Input Devices			X		
High Color Contrast Display Options				X	
Translation of Text to Other Languages			X		
Bilingual Dictionaries available for students			X		

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

Questions	Yes	No	Under Development	Details
Are there required accessories (headsets, speakers)?		X		
Is multiple playback of audio/video possible?	X			
Can students adjust the speed of audio/video playback?		X		
Are these accessibility supports able to be turned on/off?			X	
Does all browser-based technology satisfy the Web Content Accessibility Guidelines or VPAT?			X	

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.

* Note:
"Under Development" below should include a timeline of the development and when it will be available for use.

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			We encrypt all user passwords. We use a PBKDF2 algorithm with a SHA256 hash
Data Security: Do the materials refer students to video, content, and other online sources that are not native to the materials?		X		We use hyperlinks to a variety of other resources for the teachers to use

	Check Only One			
	Yes	No	Under Development	
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		
Privacy: Does the product/vendor make their student privacy policy publicly available?	x			Because no student data is retained
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		Because no student data is retained
Privacy: Has a third-party evaluated the product for FERPA compliance?		x		
Privacy: Does the product allow registration or data collection from children under the age of 13?		x		

Installation

* Note:
"Under Development" below should include a timeline of the development and when it will be available for use.

Feature/Requirement/Specification	Check Only One			Details
	Yes	No	Under Development	
Is the product downloaded to individual devices: one-time internet connection required?		x		It is a browser based product that doesn't require download. We are looking to develop a service worker so that the content can be referenced without an internet connection. Also, you can download the PDF of the content as a one time effort.

Question				Details
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		
Do network administrators need to ensure a specific set of domains are white-listed to allow user traffic to those endpoints?	X			Only if the network is set up so that the network administrator needs to approve a domain.
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		We use emails as our usernames and passwords are self-selected by the user.
Is there an option for concurrent user licensing?	X			

Standards	Compliant	Certified	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.

IMS 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?	900ms
What is the required bandwidth per user?	Each page is around 2mb, so it would be dependent upon the amount of pages they visit and if they decide to download the materials as a PDF/Zip. Unit level zips are around 15mb and lesson level zips are around 1mb each.
Are results of stress tests provided to customers?	No

Is a disaster recovery plan for data provided to customers?	No - although we keep daily backups of our databases
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?	NA
Does the product require a VPN for off site access?	No

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