



# Instructional Materials Technology Information

**Title:** Math Techbook Integrated

**Content Area:** Math

**Publisher:** Discovery Education

**Grades:** HS

**Copyright:** 2017

# 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 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?	X				<p>Discovery Education is a web-based service delivered via the internet (SaaS model). There is no local installation, expense, or maintenance of servers or software. Math Techbook is a fully digital instructional resource built with extensive multimedia content, which can be accessed in a one-to-one setting on a personal device such as an iPad or Chromebook, or a one-to-many setting through interactive display boards.</p> <p>Discovery Education digital products integrate with a variety of Learning Management Systems (LMS), including Schoology and Canvas. This allows users to navigate between Discovery Education and the LMS seamlessly. More information on Discovery Education integrations is available at:  <a href="https://usermanagement.discoveryeducation.com/resource/integrations-overview/">https://usermanagement.discoveryeducation.com/resource/integrations-overview/</a> </p>

Do the materials support learning in hybrid settings (both in-person and remote learning) concurrently?	X				Discovery Education Math Techbook offers a safe, flexible environment that is available anywhere, anytime, on any device for seamless transition between in-class, remote, or blended instruction.
Are tasks, activities, and lessons able to be printed either for in-class use or for use in at-home learning?	X				Much of the content is available for download and offline use, including PDF worksheets, print-on-demand text that retains student highlights, offline play options for interactives, downloadable videos, printable assessments, and printable student activities.

Is there instruction so students can work independently (or with an adult at home)?	X				<p>Math Techbook engages students with digital content. Whether every student has a device, several students share a device, or the whole class engages with an interactive whiteboard or other large display, students can experience dynamic content, interactives, videos, digital tools, and game-like activities that increase their motivation to learn math. Students learn content through multiple pathways that match their learning style and can monitor their own progress in real time with the Student Dashboard. Students also have multiple opportunities to communicate their mathematical understanding and collaborate with others while they are building it.</p> <p>Each student receives an individual Discovery Education login that is shared with the parents so that they have access to the same content that their child does. Parents can see assignments by the teacher, text and activities, including interactives, that the student has access to.</p>
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Does the technology facilitate a teacher's ability to differentiate lessons, tasks, or other content for students?	X				<p>Students using Math Techbook can highlight text (both on-screen HTML text and pdf text) for instant read-aloud text-to-speech audio. Users can then track, organize and review notes and highlights through the My Notebook feature.</p> <p>Technology Enhanced Items in Math Techbook instantly score student responses and provide feedback to students and data for teachers to assess and differentiate.</p> <p>Students and teachers have access to a dashboard that tracks their performance using the Coach and Play feature.</p> <p>Each concept within Math Techbook also includes a bank of related "Additional Resources" that can be instantly assigned to individual students or groups needing remediation or extension.</p>
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Are there tutorials, videos, or other integrated supports in the materials to help educators to understand and/or utilize the materials?	X				<p>Teachers can take advantage of the on-demand professional learning tools that are built right into Math Techbook. Teachers can access the following:</p> <ul style="list-style-type: none"> <li>• Step-by-Step Guides</li> <li>• Interactive Modules</li> <li>• Strategies</li> <li>• Sample Lessons</li> <li>• New Teacher Essentials</li> <li>• Content Collections</li> <li>• STEM Camp Materials</li> <li>• A full Events Calendar</li> <li>• Blogs from the DE Community</li> </ul> <p>Teachers can also tap into a full schedule of webinars accessible to all users to focus on a variety of topics to support the use of Techbook for classroom teachers. These 60-minute webinars are led by Discovery Education PD Specialists who specialize in using digital content and research based instructional strategies designed to increase student engagement, academic literacy, and ultimately improve student achievement.</p> <p>Webinar topics will address specific tools such as Studio storyboards, using assessments, designing lessons, as well as all levels of functionality. Webinars will also be available each week specific to Techbook content.</p>
Are there tutorials, videos, or other integrated supports in the materials to help parents/guardians to understand and/or utilize the materials?	X				<p>Each unit in Math Techbook includes a parent letter, available in English and Spanish, to outline the content of the unit and suggest ways parents can help support their children. These letters are made available to teachers in Microsoft Word format, so they may be edited as needed.</p>



<p>Are all of the following audiences provided access to the product as part of the core purchase?</p> <ul style="list-style-type: none"> <li>• parents/guardians</li> <li>• Educators (Teachers, Administrators, etc.)</li> <li>• Students</li> </ul>	X				<p>Each student receives an individual Discovery Education login that is shared with the parents so that they have access to the same content that their child does. Parents can see assignments by the teacher, text and activities, including interactives, that the student has access to. In addition, student on-line responses and any scoring of items by the computer or by the teacher are recorded in a dashboard that is readily available to student and parent. Course overview pages in pdf format are available for printing and distribution or digital distribution.</p> <p>Purchase of a student license for Math Techbook includes on-line access to the teacher version for the teacher.</p>
<p>Are the materials designed to integrate with a Learning Management System (LMS)?</p>	X				<p>Discovery Education digital products integrate with a variety of Learning Management Systems (LMS), including Schoology and Canvas. This allows users to navigate between Discovery Education and the LMS seamlessly. More information on Discovery Education integrations is available at:  <a href="https://usermanagement.discoveryeducation.com/resource/integrations-overview/">https://usermanagement.discoveryeducation.com/resource/integrations-overview/</a></p>
<p>Does all content conform to the <a href="#">National Instructional Materials Accessibility Standard</a>?</p>		X			<p>Discovery Education Math Techbook is a 100% digital program, therefore NIMAS files for print tiles is not applicable. On-demand digital tools provides a read-aloud text-to-speech function for both on-screen HTML text and embedded pdfs. Math Techbook is compatible with screen-reader applications such as JAWS. On-demand print functionality allows quick printing of a page, tab, or entire concept.</p>

Is there technical support during day-to-day use?					<p>The Discovery Education Customer and Technical Support team is available to work with administrators and teachers. Discovery Education's support structure includes a defined internal escalation path utilizing a ticket system, which allows a customer to track progress working with any of our support staff. In addition, customers may escalate urgent issues via e-mail or by phone through the Support Representatives Services or the Director of Customer and Technical Support. Upon initiation of service, direct contact information will be provided for the points of escalation within Discovery Education.</p> <p>Technical support is available Monday – Thursday 8:00 am – 7:00 pm EST and Friday 8:00 am – 6:30 pm EST via a highly trained, “live” Discovery Education technician to assist and help trouble shoot. In addition, there is a comprehensive Help Section on the website that provides a number of technical support resources.</p>
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## 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.

**“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	
<p>Are the materials designed to be used with both digital and print components?</p> <p>Are there print options available for student-facing materials that could be utilized in a blended digital approach?</p> <p>Is the print content identical, similar, or comparable to the digital?</p>	X				<p>Although many students prefer to consume content in a digital manner, often a print-based experience can be more effective in helping them solidify content knowledge. Math Techbook provides flexibility for teachers to select the most appropriate mode of delivery of content for students. Within the toolbar in the Math Techbook, teachers can print a page or the entire concept with one click of a button.</p> <p>Much of the content is available for download and offline use, including PDF worksheets, print-on-demand text that retains student highlights, offline play options for interactives, downloadable videos, printable assessments, and printable student activities.</p>
Is the digital design of the materials intended to replicate a textbook experience?	X				<p>Math Techbook is a breakthrough digital textbook. Math Techbook is built from the ground up to expertly align to standards and can be used as a comprehensive core digital resource that would replace a traditional textbook or can also be used as a supplementary digital resource. It integrates multimedia, including video, audio, text, and interactives, with hands-on activities and virtual labs. Embedded assessment opportunities are also provided. Math Techbook works on any device and in any instructional setting.</p>

Are digital teacher guides available for the materials?	X				Each concept in Math Techbook opens to an instructional guide for the teacher called a Model Lesson. The model lesson contains an overview of the content for the teacher, progressions information to show the teacher what students will have studied leading up to this lesson and where the learning will lead to later in the year or in subsequent courses. Model lessons point out common misconceptions and the specific focus on math practices for that concept. The model lesson then provides a suggested instructional pathway for the teacher to use, giving estimated time for the activities within the concept. Within the teacher's version of the student text (accessible from the model lesson by a click on the Discover, Practice, Apply tabs) each page contains teacher notes that alert teachers to strategies, misconceptions, and opportunities to apply mathematics practices. These notes can be turned off so that the teacher can display the page to students for discussion. Purchase of a student license for Math Techbook includes on-line access to the teacher version for the teacher. No reproduction is required.
Do the materials contain videos/animations/simulations for student learning?	X				Students engage with Math Techbook content through videos, images, songs, primary and secondary documents, and interactive simulations.
Is any or all online content dependent on links that are not maintained by the publisher?			X		

Do the materials include opportunities for online collaboration among students?	X				<p>Students are continually encouraged to discuss their findings with one another. On-screen text encourages this kind of collaboration. In addition, the Instructional Notes in the Model Lesson provide suggestions for how students can work together. And the Teacher Notes also give recommendations for how students can work cooperatively during a lesson.</p> <p>Studio is a creation and collaboration suite that gives teachers and students everything they need to design and build their own boards, collaborate on projects, and share their content with their peers. With this exciting creation and collaboration tool, there are endless possibilities to develop engaging lessons and facilitate collaboration among students.</p> <p>Studio is a completely open experience where you can create unique and engaging multi-page experiences using Discovery Education's resources. Once you've created something, you can then send or invite others to view or collaborate.</p>
Do the materials include built in features for student-to-teacher interaction?	X				<p>In Math Techbook teachers can quickly assign and share instructional resources to individual students, groups of students, or the entire class.</p> <p>The Classrooms feature also allows teachers to view students' progress on assignments, assessments, quizzes, and writing prompts. Teachers can view resources assigned to whole classes or individual students. By selecting individual students, teachers can check student progress on assignments.</p>

					<p>Educators using Discovery digital curriculum services can use the Classrooms feature to create or import classes, duplicate classes, assign resources, track formative assessment data, and solicit feedback on assignments.</p> <p>In Studio, teachers can develop and share digital content to take advantage of assignment flexibility. Studio templates are available to use and share, speeding up the creation process and saving valuable time. Studio also supports differentiated instruction by varying the assignment of research, collection, and creation tasks to individual students or whole groups.</p>
Is a 1:1 device ratio required?			X		Math Techbook can be used in a variety of technology settings, from 1:1 to 1:few to 1:many.

Are the assessments contained within the materials able to be securely completed by students online?	X				Throughout the Discover/Practice/Apply cycle, formative data is collected online and transmitted to both a student dashboard that summarizes the responses for the student, as well as a teacher dashboard that enables teachers to conduct individual and class analysis of learning. A unit assessment is provided for each unit. Assessments are aligned to standards and include scoring keys. Assessment Builder offers a unique opportunity to effectively evaluate individual student performance both on the part of the teacher and for student self-evaluation. The test bank in Assessment Builder contains thousands of selected response items for all courses. It also provides remediation suggestions for areas that need further work. Class and individual reports serve to easily measure performance in all content areas, provide feedback, and inform educators how to best support student growth and improvement. Teachers can utilize pre-created concept and unit assessments or create their own, including standards-based assessments and teacher-created items.
Is data available about user sessions (e.g., timestamps, content being viewed, callbacks fired, etc...)?	X				The Insights Dashboard is intended to provide an easily accessible window into how Discovery Education services are being used within your account. It enables you to view and analyze consistent and accurate usage data, so that you can understand trends and glean insights to inform decisions.



					<p>Within the Insights Dashboard, there are district-level and school-level reports. At each level there is an overview, as well as individual reports for Math Techbook. District administrators have access to the district-level reports; and both district and site administrators have access to the school-level reports. Navigation within each report is similar.</p> <p>Techbook Usage – District includes an overview of the products in the account, school year, licensed schools, and number of students, teacher, and admin users of Techbook. Includes tiles showing: number of students and teachers using the single product by month; users by school and role; schools with the greatest student and teacher usage; student, teacher, and admin usage by course, unit and concept; top course units; top unit concepts; usage by resource type and download status; assessments assigned; and assessments completed by school and by type.</p> <p>Techbook Usage – School includes an overview of the products in the account, school year, and number of students, teacher, and admin users for Techbook. Includes tiles showing: the number of students and teacher users by month; student, teacher, and admin usage by course, unit and concept; top course units; top unit concepts; usage by resource type and download status; assessments assigned; and assessments completed by type.</p>
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Are there online professional learning supports to help teachers utilize the materials?	X				<p>Teachers can take advantage of the on-demand professional learning tools that are built right into Math Techbook. The “Grow” tiles within the Experience platform highlight robust professional development resources included at no additional cost.</p> <p>These PD tiles launch teachers into a full array of free resources. Here teachers and leaders will find four major pillars of support.</p> <ol style="list-style-type: none"> <li>1. Learn &amp; Lead</li> <li>2. Strategies &amp; Resources</li> <li>3. Events &amp; Experiences</li> <li>4. Connect with DE.</li> </ol> <p>In these sections teachers can access the following:</p> <ul style="list-style-type: none"> <li>• Step-by-Step Guides</li> <li>• Interactive Modules</li> <li>• Strategies</li> <li>• Sample Lessons</li> <li>• New Teacher Essentials</li> <li>• Content Collections</li> <li>• STEM Camp Materials</li> <li>• A full Events Calendar</li> <li>• Blogs from the DE Community and much more!</li> </ul>
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<p>Are there parent/guardian resources available for school systems to utilize:</p> <ul style="list-style-type: none"> <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>	X				<p>Each unit in Math Techbook includes a parent letter, available in English and Spanish, to outline the content of the unit and suggest ways parents can help support their children. These letters are made available to teachers in Microsoft Word format, so they may be edited as needed.</p> <p>Each student receives an individual Discovery Education login that is shared with the parents so that they have access to the same content that their child does. Parents can see assignments by the teacher, text and activities, including interactives, that the student has access to. In addition, student on-line responses and any scoring of items by the computer or by the teacher are recorded in a dashboard that is readily available to student and parent. Course overview pages in pdf format are available for printing and distribution or digital distribution.</p>
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<b>Learning Management Systems</b>	<b>Blackboard</b>	<b>Canvas</b>	<b>Eduphoria</b>	<b>Google Classroom</b>	<b>ItsLearning</b>	<b>Moodle</b>	<b>Schoology</b>	<b>Other: Please list below</b>
Are the materials configured to work with one or more learning management systems? Check all that apply.		X		X			X	Microsoft Teams, Seesaw, Class Dojo
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				<ul style="list-style-type: none"> <li>• Google SSO</li> <li>• Office 365 SSO</li> <li>• ADFS/SAML SSO</li> <li>• LDAP Active Directory SSO</li> <li>• ClassLink SSO</li> <li>• Clever SSO</li> <li>• NCEd Cloud (North Carolina Only)</li> </ul>
Can the platform manage staff assigned to multiple schools with a single sign-on?	X				
Can co-teachers be assigned to multiple classes?				X	Discovery Education is planning on adding co-teacher functionality to its digital services soon. At the present time, every teacher or co-teacher can have a unique login, but only one teacher could manage a specific class of students.

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				All Discovery Education services allow for delegated administration of users through role-based authentication. Discovery Education services consist of an admin interface that is web-browser based with HTTPS enabled, which allows for remote management. Discovery Education services utilize management of account permissions using a role-based hierarchy (account/district administrator, school/site administrator, teacher, and student roles). Discovery Education services offer unique administrative, teacher, and student views. Each of these views provides access to the content and resources appropriate for the role assigned by the administrator. Account/District Administrator have access to teachers, students, and classes across the district. The Administrator has the capability to log into any web supported browser and utilize his/her authorizations to manage users, content, and access district wide. Site administrators may create and maintain user accounts and add and update classes for their school via the bulk upload tool.
Can passwords be reset without assistance from trained IT staff?	X				Users can self-service update password by logging into Discovery Education, then accessing the profile page to update the password. Non-students can also reset passwords via the login page forgot password link, which triggers an email verification process.

When working offline, does the product automatically sync when a connection is re-established?			X		Much of the content is available for download and offline use, including PDF worksheets, print-on-demand text that retains student highlights, offline play options for interactives, downloadable videos, printable assessments, and printable student activities.
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## 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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**“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.

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				For implementations of Math Techbook, we co-develop a measurement plan with our partner to monitor the collection of data and progress using the product and learning with professional learning services. The implementation monitoring discussions occur regularly with DE and the partner. These discussions include data such as: usage of Math Techbook by site and instructional unit, for teacher and students, session-specific educator professional learning surveys administered at the conclusion of each event, and surveys. Additional data may be

					<p>collected and support from DE may be provided, depending on the partnership as the implementation progresses.</p> <p>Technical support is available at no additional cost Monday – Thursday 8:00 am – 7:00 pm EST and Friday 8:00 am – 6:30 pm EST via a highly trained, “live” Discovery Education technician to assist and help troubleshoot. In addition, there is a comprehensive Help Section on the website that provides a number of technical support resources.</p>
Is technical support provided during the duration of the contract?	X				<p>The Discovery Education Customer and Technical Support team is available to work with administrators and teachers at no additional cost. Discovery Education's support structure includes a defined internal escalation path utilizing a ticket system, which allows a customer to track progress working with any of our support staff. In addition, customers may escalate urgent issues via e-mail or by phone through the Support Representatives Services or the Director of Customer and Technical Support. Upon initiation of service, direct contact information will be provided for the points of escalation within Discovery Education.</p> <p>Technical support is available Monday – Thursday 8:00 am – 7:00 pm EST and Friday 8:00 am – 6:30 pm EST via a highly trained, “live” Discovery Education technician to assist and help trouble shoot. In addition, there is a comprehensive Help Section on the website that provides a number of technical support resources.</p>

If utilizing a free or trial version, is technical support provided?	X				<p>The Discovery Education Customer and Technical Support team is available to work with administrators and teachers at no additional cost. Discovery Education's support structure includes a defined internal escalation path utilizing a ticket system, which allows a customer to track progress working with any of our support staff. In addition, customers may escalate urgent issues via e-mail or by phone through the Support Representatives Services or the Director of Customer and Technical Support. Upon initiation of service, direct contact information will be provided for the points of escalation within Discovery Education.</p> <p>Technical support is available Monday – Thursday 8:00 am – 7:00 pm EST and Friday 8:00 am – 6:30 pm EST via a highly trained, “live” Discovery Education technician to assist and help trouble shoot. In addition, there is a comprehensive Help Section on the website that provides a number of technical support resources.</p>
Are there self-service supports for troubleshooting?	X				<p>Teachers can receive help on demand. Teachers can access help from the “Help” icon in upper right. The icon links to Product-Specific Guides in the Professional Learning Center.</p>
Does technical support include planning for emergency access and district support?	X				<p>The Discovery Education Customer and Technical Support team is available to work with administrators and teachers. Discovery Education's support structure includes a defined internal escalation path utilizing a ticket system, which allows a customer to track progress working with any of our support staff. In addition, customers may escalate urgent issues via e-mail or by phone through the Support Representatives Services or the Director of Customer and Technical Support. Upon</p>



					<p>initiation of service, direct contact information will be provided for the points of escalation within Discovery Education.</p> <p>Technical support is available Monday – Thursday 8:00 am – 7:00 pm EST and Friday 8:00 am – 6:30 pm EST via a highly trained, “live” Discovery Education technician to assist and help trouble shoot. In addition, there is a comprehensive Help Section on the website that provides a number of technical support resources.</p>
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## 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?		X			
Is the product browser-based?	X				For tablets and mobile devices, Discovery Education does not support specific devices by name but does ensure products work with devices using the most recent version of the following Operating Systems: ChromeOS, Android, iOS
Does the product use responsive design for rendering on smartphones?	X				Math Techbook is mobile responsive, automatically re-sizing and arranging digital content to best display on the specific device of the user.

Does the product use responsive design for rendering on tablet devices?	X				Math Techbook is mobile responsive, automatically re-sizing and arranging digital content to best display on the specific device of the user.
Does the product use responsive design for rendering on laptop devices?	X				Math Techbook is responsive, automatically re-sizing and arranging digital content to best display on the specific device of the user.
Does the product use responsive design for rendering on desktop devices?	X				Math Techbook is responsive, automatically re-sizing and arranging digital content to best display on the specific device of the user.
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				Math Techbook is easy to use, anywhere, anytime. The streamlined design provides an easy-to-follow experience, accessible from any device, 24/7. Plus, a one-to-one classroom is not needed. Math Techbook can be used with any amount of technology—a classroom full of laptops, tablets, individual smart phones, or a single interactive white board.

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	<input checked="" type="checkbox"/>			<p>For desktop computers, Discovery Education works on both Macintosh and Windows based desktop hardware. We recommend that the following specifications for Windows based hardware:</p> <ul style="list-style-type: none"> <li>-Windows 7 or newer</li> <li>-1 GHZ processor or faster</li> <li>-Minimum resolution of 1024 x 600 for optimal viewing</li> <li>-Sound card and speakers</li> </ul>
Linux				
Windows Tablet	<input checked="" type="checkbox"/>			<p>For desktop computers, Discovery Education works on both Macintosh and Windows based desktop hardware. We recommend that the following specifications for Windows based hardware:</p> <ul style="list-style-type: none"> <li>-Windows 7 or newer</li> <li>-1 GHZ processor or faster</li> <li>-Minimum resolution of 1024 x 600 for optimal viewing</li> <li>-Sound card and speakers</li> </ul>
Apple Laptop/Desktop	<input checked="" type="checkbox"/>			<p>For desktop computers, Discovery Education works on both Macintosh and Windows based desktop hardware. We recommend that the following specifications for Macintosh based hardware:</p> <ul style="list-style-type: none"> <li>-Apple Mac OS version 10.x</li> <li>-1GHZ processor or faster</li> <li>-Minimum resolution of 1024 x 600 for optimal viewing</li> <li>-Sound card and speakers</li> </ul>

iPhone	<input checked="" type="checkbox"/>			While we don't support specific devices by name - we do ensure that our products work with devices using the most recent version of the iOS operating system.
iPad	<input checked="" type="checkbox"/>			While we don't support specific devices by name - we do ensure that our products work with devices using the most recent version of the iOS operating system.
Android Phone	<input checked="" type="checkbox"/>			While we don't support specific devices by name - we do ensure that our products work with devices using the most recent version of the Android operating system.
Android Tablet	<input checked="" type="checkbox"/>			While we don't support specific devices by name - we do ensure that our products work with devices using the most recent version of the Android operating system.
Chromebook/Chrome OS	<input checked="" type="checkbox"/>			While we don't support specific devices by name - we do ensure that our products work with devices using the most recent version of the ChromeOS operating system.
Amazon Fire OS				
Other E-Reader				If supported, specify which e-readers are compatible.
Interactive Whiteboard	<input checked="" type="checkbox"/>			

Browser		Operating System						
		Apple		Windows		Linux	Chrome OS	N/A
	Check if browser is compatible	Oldest version supported	Newest version supported	Oldest version supported	Newest version supported			
Chrome	<input checked="" type="checkbox"/>	Google Chrome	Google Chrome	Google Chrome	Google Chrome		Google Chrome	
Firefox	<input checked="" type="checkbox"/>	Mozilla Firefox 44	Most recent version (Mozilla Firefox 77.0.1)	Mozilla Firefox 44	Most recent version (Mozilla Firefox 77.0.1)		Most recent version (Mozilla Firefox 77.0.1)	
Safari	<input checked="" type="checkbox"/>	Safari 9.0	Most recent version (Safari 13.1)					
Edge (formerly Internet Explorer)	<input checked="" type="checkbox"/>	Microsoft Edge 38.x	Most recent version (Microsoft Edge 83.0.478.37)	Microsoft Edge 38.x	Most recent version (Microsoft Edge 83.0.478.45)			
Internet Explorer	<input checked="" type="checkbox"/>			Internet Explorer 11	Internet Explorer 11			
Other:_____	<input checked="" type="checkbox"/>							
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				Majority of the components are accessible to those without vision who use assistive technology such as screen readers. The recommended accessibility pathway is a screen reader software program such as JAWS.
Screen Magnification Software	X				Majority of the components are accessible to those with low vision who use assistive technology such as screen readers, who can zoom the page screen to 200% and can use magnification tools such as zoom text.
Text Readers	X				Text-to-speech is available on every page throughout the service.
Adjustable Print Size	X				The font used in Discovery Education is an easy to read sans serif font (body copy is Helvetica set at 14 px). A browser's zoom functionality may be used to adjust the size. Text line length across the page has been set not to exceed 50-60 characters for best readability. (see reference article: <a href="http://baymard.com/blog/line-length-readability">http://baymard.com/blog/line-length-readability</a> )
Speech Input Software		X			Users can search with voice commands in Chrome.

Header Point Devices			X		
Motion/Eye Tracking Devices			X		
Single Switch Entry Devices			X		
Braille Readers/ Display Devices	X				As long as a refreshable Braille device reads/works with HTML, students should be able to read all text, image tags and captions in Discovery Education, which is in the process of being thoroughly tested.
Closed Captioning	X				Many videos in DE.X are captioned, representing a large portion of our video library.
Alternative Input Devices			X		
High Color Contrast Display Options	X				Instructional content in DE.X is presented in high contrast and meets level AA of the Web Content and Accessibility guidelines for color contrast. Further, the background may be adjusted through browser plug-ins that enhance accessibility.
Translation of Text to Other Languages	X				Math Techbook has a variety of resources that occur in both English and Spanish. Spanish materials include the Core Interactive Text (CIT) of each concept, as well as interactives, assessments, and a wide variety of video and song selections. Student and teachers can instantly toggle between English and Spanish translations without needing to slow down learning by redirecting to separate materials.
Bilingual Dictionaries available for students	X				An interactive glossary, available in English and Spanish, is provided that provides glossary terms supported by animations that are designed to enhance understanding of key mathematics terminology.



Are there required accessories (headsets, speakers)?	X				<p>For desktop computers, Discovery Education works on both Macintosh and Windows based desktop hardware. We recommend that the following specifications are met:</p> <p>Macintosh based systems:</p> <ul style="list-style-type: none"> <li>-Apple Mac OS version 10.x</li> <li>-1GHZ processor or faster</li> <li>-Minimum resolution of 1024 x 600 for optimal viewing</li> <li>-Sound card and speakers</li> </ul> <p>Microsoft based systems:</p> <ul style="list-style-type: none"> <li>-Windows 7 or newer</li> <li>-1 GHZ processor or faster</li> <li>-Minimum resolution of 1024 x 600 for optimal viewing</li> <li>-Sound card and speakers</li> </ul>
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				
Does all browser-based technology satisfy the Web Content Accessibility Guidelines or <a href="#">VPAT</a> ?	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.

Questions	Check Only One			Details
	Yes	No	Under Development	
<b>Data Security:</b> Are data elements encrypted at rest, i.e. in a database or file system?	X			All data at rest in databases is encrypted with AES-256, which meets the stated FIPS 140-2 requirements. Keys are managed through industry and platform standard key management mechanisms (Microsoft TDE)
<b>Data Security:</b> Do the materials refer students to video, content, and other online sources that are not native to the materials?		X		
<b>Data Security:</b> Does the end-user licensing agreement allow customers to scrape data from the product?	X			Upon expiration or termination of Agreement, Discovery shall destroy all personally identifiable information previously received from Subscriber/Customer/Distributor no later than sixty (60) days following such termination, unless a reasonable written request is submitted by Subscriber/Customer/Distributor to Discovery to hold such personally identifiable information. Each electronic file containing personally identifiable information provided by Subscriber/Customer/Distributor to Discovery will be securely destroyed. This provision shall apply to personally identifiable information that is in the possession of Discovery, Discovery employees/personnel and/or Authorized Disclosees, per Discovery Education, Inc.'s Data Security Policy.

<b>Privacy:</b> Is personally-identifying student data provided to, generated by, or stored in any systems used by the product?	X			There is no student data required for the use of any of the basic Discovery Education services. In the event users elect to use any of the functionality within the Discovery Education services which provide personalized pages, individual accounts, other user-specific customization, or otherwise submit or upload information, such student data will be limited to first name, last name, grade level and school name.
<b>Privacy:</b> Does the product/vendor make their student privacy policy publicly available?	X			Please visit <a href="https://www.discoveryeducation.com/privacy-policy/">https://www.discoveryeducation.com/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.)?	X			While there is no student data required for the use of any of the basic Discovery Education services, in the event users elect to use any of the functionality within the Discovery Education services which provide personalized pages, individual accounts, other user-specific customization, or otherwise submit or upload information, (such student data will be limited to first name, last name, grade level and school name) Discovery Education shall use such student data provided in compliance with the Children's Online Privacy Protection Act of 1988 ("COPPA"), the Federal Educational Rights & Privacy Act of 1974 ("FERPA"), Children's Internet Protection Act ("CIPA") and other applicable laws, regulations and statutes, and (b) the Student Data Transparency and Security Act in Colorado House Bill 16-1423 and (iii) Discovery's Data Security Policy.
<b>Privacy:</b> Has a third-party evaluated the product for FERPA compliance?		X		
<b>Privacy:</b> Does the product allow registration or data collection from children under the age of 13?		X		

# 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		
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		
Does the product support deployment through Mobile Device Management (MDM) systems?		X		
Does the product provide a detailed schedule of updates that minimizes access interruption?	X			Discovery Education Math Techbook is completely dynamic and continuously updated to include instructional materials that are up-to-date with current events and content that reflects the world in which our students live.
Does the login authentication use district protocols to establish unique and memorable usernames and passwords?		X		All Discovery Education users access the system with a username and password that allows access to content and tools based on role. Both usernames and passwords must adhere to minimal guidelines, with minimum character requirements. Passwords may be reset by users or Discovery Education support staff but are not visible within the profile or support tools to protect user privacy. User-ids must be unique within the Discovery Education user database.

Is there an option for concurrent user licensing?		X		
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Standards Compliance/Certification	Check all that apply	Details
SIF		
CEDS		
EDUPUB		
Ed-Fi (SIS/ODS)		
Ed-Fi (Assessments)		
MS Global (Competencies and Academic Standards Exchange)		
IMS Global (Comprehensive Learner Record)		
IMS Global (Open Badges)		
IMS Global (One Roster)	X	<a href="https://help.discoveryeducation.com/classlink-sso">https://help.discoveryeducation.com/classlink-sso</a>
IMS Global (Caliper Analytics)		
IMS Global (Question and Test Interoperability (QTI))		
IMS Global (Learning Tools Interoperability (LTI))	X	<a href="https://help.discoveryeducation.com/canvas-integration">https://help.discoveryeducation.com/canvas-integration</a> <a href="https://help.discoveryeducation.com/schoology-integration">https://help.discoveryeducation.com/schoology-integration</a>
IMS Global (LTI Advantage)	In-Progress	
IMS Global (Common Cartridge)		
IMS Global (Lite Common Cartridge)	X	<a href="https://site.imsglobal.org/certifications/discovery-education">https://site.imsglobal.org/certifications/discovery-education</a>
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.
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Implementation and Scalability	Yes/No or Value
What is the average page load time?	3.7 seconds
What is the required bandwidth per user?	Discovery Education videos utilize ~256 kilobits per second for each video streamed at the standard bitrate (2 megabytes for a minute).
Are results of stress tests provided to customers?	<p>Discovery Education's products are hosted in geographically diverse redundant data centers. The data centers are staffed 24/7/365 with specialized expertise in database clustering and globally load balanced hosting.</p> <p>Infrastructure and operating procedures at Discovery Education are certified SSAE 16 SOC I compliant. In addition, we employ independent third-party vulnerability assessments and penetration testing. Discovery Education's corporate policy does not permit disclosure of its security audit report; however, Discovery Education will certify such third-party audits are performed on a periodic basis.</p>
Is a disaster recovery plan for data provided to customers?	Yes, there is a comprehensive disaster recovery plan that is followed in case of a disaster.
Are customers provided with a standardized implementation plan to ensure a successful rollout?	<p>Yes, Discovery Education Math Techbook is a digital core resource (with advanced on-demand print functionality), and this significantly reduces the burdens of implementation. Digital licenses are activated within 24 hours of an executed contract, and therefore delivering the contracted products in a timely manner is a streamlined and quick task.</p> <p>For implementations of Math Techbook, we co-develop a measurement plan with our partner to monitor the collection of data and progress using the product and learning with professional learning services. The implementation monitoring discussions occur regularly with DE and the partner. These discussions include data such as: usage of Science Techbook by site and instructional unit, for teacher and students, session-specific educator professional learning surveys administered at the conclusion of each event, and surveys. Additional data may be collected and support from DE may be provided, depending on the partnership as the implementation progresses.</p>
Does the service level agreement include uptime guarantees of at least 95%	Yes, Discovery Education uses an in-app product notification to communicate unscheduled outages. Discovery Education employs redundant and geographically

excluding planned maintenance/down-times?	diverse data centers to ensure uptime. The core functionality of the Discovery Education digital products will be available 24/7, 99.9% of the time on a monthly basis (except for scheduled maintenance windows and interruptions outside of Discovery Education's control).
Does the product require a VPN for off site access?	No