

QTI Import

Use the **QTI** import functionality to import tests and **test items** that meet the IMS Question and Test Interoperability (QTI) 2.1 specification. QTI tests are uploaded into Test Central, and test items are uploaded to an item bank selected before the upload begins. An import log is generated to list errors and other information about the import. All test items must be QTI 2.1 compliant.

Note: Any test items that do not meet the QTI 2.1 specification (including QTI 2.1 items) will be ignored during the import process.

To import test items

1. Click the gear icon, and then click **System**.
2. Click **QTI Import** under **Assessments Settings**.
3. On the **Uploader** tab, click **Choose**.
4. Drag and drop the file containing the QTI items to the box on the QTI Import screen that instructs you to drag and drop files there. You can also browse to and select the ZIP file containing the QTI items.
5. Select the item bank to which to save the imported items, or create a new item bank. Then click **Continue**.
6. A yellow message will warn you not to navigate away from the page while an upload is in progress. When the upload is complete, a green message will inform you that the upload is complete and that you can navigate to another page.
7. After the upload is complete, click the **Import Log** tab and review any errors or warnings that occurred.

Items that were created in Schoolnet, exported, and then were imported back into Item Central are imported as new items, which can be edited. These imported items do not overwrite existing items, even if they have been previously imported.

Third party items (items imported from third-party vendors, rather than created in Schoolnet) can be imported into Item Central but cannot be edited. Also, when imported, third party items do overwrite existing items, if they were previously imported. All third party items are locked to prevent modification; however, they can be shared with specific institutional levels (districts, regions, and schools).

Imported items include the item's original item properties, including Cognitive Demand Level, Reading Level, Authored Difficulty, Bloom's Taxonomy, Course ID, Batch, and Vendor. Additional metadata, such as points possible, additional item identifiers, duplicate standards, and the omission of empty item types, can also be included, as can advanced statistics, such as Threshold, infit values, and outfit values. All alignments with standards documents (for tests and test items) are imported, as well. If none of the standards aligned with an item exist in Schoolnet, the QTI import for that item will fail. As long as even one of the item's standards exists in Schoolnet, the item will import successfully. Curriculum and Course Specific Item's properties are not supported.

MP3 audio and MP4 video files attached to an item will be imported; other audio and video file formats will be ignored. Fonts, font sizes, and other font attributes will be imported and maintained in the system. QTI items that are flagged as hard-to-measure will be flagged as hard-to-measure in the test item properties.

To import a test

When tests are imported into the system, the items included with the imported test are only viewable as a part of the test and cannot be copied, edited, or used in other tests. If a copy of the test already exists within the system, and has been scheduled at any time, the original test will not be altered, and a new test will be created. If a test has never been scheduled, it will be overwritten.

Note: For multi-tenant sites, the district performing the upload will become the test owner.

1. Click the gear icon, and then click **System**.
2. Click **QTI Import** under **Assessments Settings**.
3. On the **Uploader** tab, click **Choose**.
4. Browse to and select the ZIP file containing the test.
5. Click **Upload**.
6. Verify or modify the Assessment Properties:
 - **Test Identifier** -This field is read-only and is required to be included in the import file. If this ID is not present in the import file, the test cannot be imported.
 - **Test Name** – Enter the name of the test. This name will display in other parts of Assessments.
 - **Subject** – Choose a subject of the test.
 - **Grade Level** – Choose a grade level.
 - **Institution Source** – This field is available only to system operators. Shows where the information comes from, such as the district or region.
 - **Test Category** – Choose the category of the test such as District Benchmark, My Classroom.
 - **Preferred Standards Document** – The standards document the items you would like to add are mapped to. The QTI Importer only considers standards that are associated with a standards document in a standards set. You may change the standards document later. Multiple alignments per standards document are now supported.
 - **Answer Key Only** – Generates only the answer key without the question and answer content. Although no actual question stem and choice text will be shown on the answer key, each item requires an item type, correct answer choice, point value, and standard alignment.
7. Click **Save**.
8. A message will appear when the upload is complete. If any resource in a test or task cannot be imported, the test or task will not upload.
9. After the upload is complete, click the **Import Log** tab and review any errors or warnings that occurred.

Depending on the size of the test, it may take some time to upload and process. In addition to the completion message that appears on the QTI Import tab, a notification will appear on the top of the page. Click the **View details here** link in the notification to view the Import Log.

Import process actions

During the import process, you can see the processing status:

- Uploading
- Preparing to validate
- Validating QTI
- Validating in TestNav
- Validating in Schoolnet

- Complete (with errors)
- Complete (with warnings)
- Complete

For uploads that are in progress or complete, you can choose to:

- Cancel All Uploads
- Retry Failed Uploads
- Remove Completed
- Remove Completed (with warnings)
- Remove Completed (with errors)
- Remove Failed

Supported item types and content for QTI import

Supported item types:

- Checklist
- Click Stick Click Drop
- Drag and Drop
- Gap Match
- Graphic Gap Match
- Gridded, including all formatting options
- Hot Spots (single and multiple selection) - rich text not supported in the hotspot label
- Hot Text
- Inline Response
- Matching
- Multiple Choice
- Open Response
- Tasks (both the default and pattern scoring models are supported)
- True/False

Supported content and settings:

- Equations constructed using MathML
- Equation editor
- Passages, including the Lexile value
- Rubrics
- Images
- Audio and video
- Exemplars
- Formula sheets
- Teacher explanations
- Student explanations
- Teacher instructions
- Scoring instructions
- Tools and manipulatives, including third-party calculators

- Rich text formatting
- Language support - French, German, Italian, Spanish, Latin, and Chinese (Pinyin and Simplified Chinese)
- Test restrictions, such as preventing viewing item content or editing student responses
- TestNav items or tests
- Global unique identifier (the item's globally unique item number provided by the content vendor)
- Statistics, such as Item Mean, Item Difficulty, Item Total Score Correlation, and N-Count
- All-or-none scoring

Not supported:

- Rich text for hot spot labels

Values for test items may include up to two decimal places, and these will be reflected in test scores.

[Import Log and Troubleshooting](#)

Click the **Import Log** tab to view the status of QTI imports. This information includes the date and time processed, district, user, severity of the issue, package ID, item bank, and related messages (errors, warnings, informational). The import log shows packages uploaded by any user, not just the current user, for the tenant that the user is logged into. For example, a user logged into a specific district would see packages uploaded to that district. Messages include detailed information to aid users in understanding issues.

You can filter the import log by stage, date range, package name, item bank, user, errors, and warnings.

Click the **Imported Test Properties** tab to view tests that were uploaded via QTI. Here, you can see the date and time that the test completed importing into Schoolnet. You can also see the district, enter a test name or ID, and select whether or not to only display tests uploaded by the current user.

For uploaded tests visible on this tab, you can change the test name, subject, grade level, test category, and preferred standards document.

The following table explains import log messages.

Message	Details
Invalid QTI package. The QTI zip file may be empty or corrupt.	The QTI zip file may be empty or corrupt. Other possible causes: • QTI package exceeds the size/item requirements. Packages must be no larger than 100 MB and cannot exceed more than 1000 items.
Invalid normal maximum for outcome declaration.	The normalMaximum attribute is not a number greater than zero.

<p>Missing or invalid manifest in QTI package. The manifest file (imsmanifest.xml) is not in the root of the package zip folder or it is invalid.</p>	<p>The manifest file (imsmanifest.xml) is not in the root of the package zip folder or it is invalid.</p>
<p>Error processing item: Unrecognized AB Standard GUID {guid}. The Standards Document is not found in Schoolnet</p> <p>or</p> <p>Error processing item: Invalid AB Standard GUID {guid}. The Standards Document is not found in Schoolnet</p>	<p>The system that you are importing into does not contain the AB Standard GUID that is referenced in the package manifest file. Load the appropriate Standards documents into the target system.</p>
<p>Error processing item: Duplicate Identifier {identifier}: The resource Identifier must be globally unique and not empty</p> <p>or</p> <p>Error processing passage: Duplicate Identifier {identifier}: The resource Identifier must be globally unique and not empty</p>	<p>The resource Identifier must be globally unique and not empty.</p> <p>The resource Identifier (Item or Passage) appears more than once in the QTI package/ Manifest file. The resource Identifier must always be a globally unique string identifying the assessment item (or passage) and not null. Delete or replace items with duplicate identifiers.</p>
<p>Error processing item: Package resource: not found</p>	<p>The passage linked to the item contains an error. The item should load once all issues with the passage are resolved.</p> <p>Other causes:</p> <ul style="list-style-type: none"> • The name of the media file cannot contain spaces. Instead of a space, use an underscore or group the words together. • Package must contain media file, it cannot be an external link on the Equella site.
<p>Error processing passage: Unable to copy file...</p>	<p>Typically, this error is the result of a missing image.</p>

Error processing item: No standards for item	No Standards are listed for the item.
Error processing item: Subject and standard have not been specified for item or Error processing passage: No valid subject for passage or Error processing item: No valid NCES subject for this items standard	Subject and standard have not been specified for item. The Subject property must either be a valid NCES subject code or use one of the shorthand subject codes listed below: • EN English Language and Literature • WL World Languages • MA Mathematics • SC Science • SS Social Studies Or the issue could be that the Classification section is not properly defined. Schoolnet requires that the purpose element be present with source being LOMv1.0 with the value of discipline. Any items without this information will be ignored. Or the subject standard is missing.
Error processing item: No valid grade for item or Error processing passage: No valid grade for passage	The grade level property must consist of a pair of values that represent a grade range, separated by a hyphen. • Valid: '06-06' or '01-12' • Not Valid: '06' Or the issue could be that the Classification section is not properly defined. Schoolnet requires that the purpose element be present with source being LOMv1.0 with the value of discipline. Any items without this information will be ignored.
Error processing passage: Cannot upload media: Object reference not set to an instance of an object.	Typically this error is caused by an MP3 file name mismatch. The name of the MP3 file in the objects folder must match the name of the MP3 file listed in the Manifest/HTML files. Common causes: • The name of the media file cannot contain spaces. Instead of a space, use an underscore or group the words together.
Error processing item: Invalid media	The media file fin not in a valid format. MP3 files up to 4 MB and MP4 files up to 8 MB in size are supported.
Error processing item: Unable to load HTML file exemplars...	Unable to load exemplars. Exemplars (or anchor papers) can be added to Open Response item types in Schoolnet. Schoolnet allows for one html exemplar per Assessment Item along with associated files such as images. Additional exemplars can be added in the form of a PDF or image.
Error processing item: Unable to load HTML file rubric...	Unable to load rubrics. Rubrics are contained in external HTML files and are referenced by <rubricBlock> elements contained within the item body. The file name will be in the format: "{rubric identifier}.html" and will be located in the "rubrics" folder in the QTI package. An <object> tag inside the rubric block will contain a reference to the external HTML content file that contains the rubric.

Unable to load item at /files/assess_files/QTIImport...	Unable to load XML file usually occurs when a special character in the item's rationale corrupts the xml file. All instances are resolved by replacing the special character with the character entity. Ex: Replaced the '&' (ampersand character) with the character entity &)
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Additional information:

QTI Schema Version 2.1	Schoolnet supports QTI schema version 2.1
CSS Style Sheets	The Schoolnet version of QTI import does not support the stylesheet element. QTI version 2.1 does not support any inline styling attributes, the only way to import richly styled content is through the use of HTML resource files referenced by the QTI object tag.
LOM 1.3	Schoolnet supports LOM version 1.3 You can determine the LOM version by looking at the top of the manifest file. Note that LOM version 1.2 is not officially supported but provided that the QTI is valid files should import successfully. Note that the QTI will not be valid if there is a mix of LOM 1.2 and 1.3 references in the file – must be one or the other.

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