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# **Modules in Moodle**

In Moodle, **modules** are used to extend the functionality of the platform, allowing instructors to create and manage different types of learning activities or resources. Moodle modules include both **activities** and **resources** that enhance the educational experience for both students and instructors. Here are the main **types of modules** in Moodle, categorized into **activity modules** and **resource modules**:

### 1. ****Activity Modules****

These modules are used for creating interactive learning tasks or assessments. They typically involve student participation and interaction.

1. **Assignment**
   * Allows instructors to create assignments where students submit work (e.g., text, files) to be graded.
2. **Forum**
   * A discussion module where students can post messages, replies, and engage in asynchronous discussions with their peers and instructors.
3. **Quiz**
   * A module for creating and administering quizzes with various types of questions, such as multiple choice, true/false, short answer, and essay questions.
4. **Choice**
   * A module for creating single-question polls or surveys where students select one of the provided options.
5. **Wiki**
   * A collaborative module where students can create and edit content collectively, such as a shared document or project.
6. **Chat**
   * A real-time, synchronous communication tool that allows students and instructors to engage in live discussions.
7. **Lesson**
   * A module that allows instructors to create interactive lessons with pages of content, quizzes, and branching scenarios based on student responses.
8. **SCORM Package**
   * A module for delivering SCORM-compliant learning content, such as e-learning packages.
9. **Survey**
   * A module for administering surveys to collect feedback or conduct research.
10. **Feedback**
    * A module for gathering feedback from students through customizable surveys or questionnaires.
11. **Workshop**
    * A peer-assessment module where students assess each other's work and receive feedback from their peers.
12. **Attendance**
    * A module for tracking student attendance in a course.
13. **External Tool**
    * A module that integrates third-party external learning tools (such as Google Drive, YouTube, or Zoom) into Moodle courses.
14. **Database**
    * A module that allows students to create, search, and view entries in a database. It’s used for creating repositories or collections of information.
15. **H5P Interactive Content**
    * A module for creating and sharing interactive content, such as quizzes, interactive videos, and presentations.
16. **Quiz**
    * For creating and conducting quizzes and assessments with a variety of question types.

### 2. ****Resource Modules****

These are static content modules that do not require direct student interaction but provide essential learning materials.

1. **File**
   * A module for uploading and sharing various types of files (documents, PDFs, images, etc.) for students to download or view.
2. **Page**
   * A module that allows instructors to create content pages with formatted text, images, videos, and links. Students can view these pages in the course.
3. **Book**
   * A module for creating multi-page books with chapters, allowing instructors to organize and present content in a book-like format.
4. **URL**
   * A module for providing links to external websites or resources.
5. **Folder**
   * A module for organizing and sharing multiple files together in a single folder that students can access.
6. **Label**
   * A small module that allows instructors to insert text, images, or HTML content to help organize course sections.
7. **IMS Content Package**
   * A module for adding IMS-compliant learning content packages, such as e-learning or multimedia content, to the course.

# **The Relationship Between Modules and Events**

The following tables exist in Moodle:

* **mdl\_modules**: Contains information about the module (activity/resource).
* **mdl\_logstore\_standard\_log**: Logs user events (interactions) with modules.
* **mdl\_course\_modules**: Links modules to specific courses and instances.
* **mdl\_context**: Defines the context of each event, linking it to a module or activity instance.

In this way, the modules (activities/resources) and the events related to them are tied together through the **contextinstanceid** (which identifies the specific instance of the module) and the **contextmodule** field (which identifies the module type).

In Moodle, **modules** and **events** are related through the **mdl\_logstore\_standard\_log** table and the **mdl\_modules** table. The relationship between modules and events can be understood by examining how the system tracks user interactions with modules and their activities:

* **mdl\_modules Table**
* This table contains the list of all available modules (both activities and resources) in Moodle.
* It holds information about each module, such as its name, type, and version.
* **Key Field:** id (primary key) is the identifier for each module.
* **mdl\_logstore\_standard\_log Table**
* This table logs all actions (events) performed by users in Moodle.
* It records every interaction a user has with a module, resource, or any other activity in the system.
* **Key Fields:**
  + **eventname**: This field contains the event name that describes the specific action or interaction, such as "assignment\_submission\_created", "forum\_post\_created", etc.
  + **contextinstanceid**: This field links the event to the specific instance of a module (for example, an individual assignment or forum) within a course.
  + **contextmodule**: This field links the event to the module type (i.e., whether it's an assignment, quiz, forum, etc.) by referring to the **mdl\_modules** table via its module ID.
  + **userid**: The user who triggered the event.
* **mdl\_course\_modules Table**
* This table links the specific instance of a module to a course. It connects the **mdl\_modules** table with the **mdl\_logstore\_standard\_log** table.
* **Key Fields:**
  + **module**: This field points to the **id** field of the **mdl\_modules** table, identifying the type of module (activity or resource).
  + **instance**: This field refers to the specific instance of the module in the course (e.g., an individual quiz or assignment).
  + **course**: The ID of the course where the module instance is located.
* **mdl\_context Table**
* The **mdl\_context** table helps define the context in which an event occurs (for example, a specific course or module).
* **Key Fields:**
  + **instanceid**: This links to the specific instance of the activity or resource being used in the event (e.g., assignment ID, forum ID).
  + **contextlevel**: This defines the type of context (e.g., module level, course level).

**Tracking Events for Modules:**

* Each user interaction (event) with a module is logged in the **mdl\_logstore\_standard\_log** table.
* When a user interacts with a module (for example, submitting an assignment), an event is triggered, and the related information (event type, context, time, user) is stored.
* The event is related to a specific module and its instance through the **contextinstanceid** and **contextmodule** fields in the **mdl\_logstore\_standard\_log** table.

**Event Types and Modules:**

* Event types are tied to specific actions that a user performs in a module. For example:
  + **For Assignments**: Events could be "assignment\_submission\_created", "assignment\_submission\_graded", etc.
  + **For Forums**: Events could include "forum\_post\_created", "forum\_post\_deleted", etc.
  + **For Quizzes**: Events could include "quiz\_attempt\_started", "quiz\_attempt\_submitted", etc.
* The **mdl\_logstore\_standard\_log** table contains detailed information about these events, including the **eventname**, which directly describes the type of interaction with the module (e.g., "quiz\_attempt\_started").

**Connecting Modules with Events:**

* The **mdl\_modules** table contains details about each module (such as whether it is a quiz, assignment, forum, etc.), while the **mdl\_logstore\_standard\_log** table logs user interactions with these modules, linking the specific module and its instance via **contextinstanceid**.
* Each log entry in **mdl\_logstore\_standard\_log** also includes a reference to the type of module being interacted with via the **contextmodule** field (which is the **module** ID from the **mdl\_modules** table).

**The Flow of Data:**

* When a user interacts with a module (e.g., submits an assignment), the **mdl\_logstore\_standard\_log** table records the event. This entry includes:
  + **eventname**: Describes the event (e.g., "assignment\_submission\_created").
  + **contextinstanceid**: Identifies the specific instance of the module (e.g., assignment ID).
  + **contextmodule**: Identifies the type of module (e.g., assignment).
  + **userid**: Identifies the user performing the action.
* The **mdl\_course\_modules** table links the module instance to a specific course, and the **mdl\_modules** table provides the module’s type.

**Example Query to Retrieve Module Events:**

SELECT

l.eventname,

l.contextinstanceid,

l.userid,

l.timecreated,

cm.module,

cm.instance

FROM

mdl\_logstore\_standard\_log l

JOIN

mdl\_course\_modules cm ON cm.instance = l.contextinstanceid

JOIN

mdl\_modules m ON m.id = cm.module

WHERE

m.name = 'assignment' -- for example, filtering by Assignment module

ORDER BY

l.timecreated DESC;

This query retrieves all events related to the **Assignment** module, showing the type of event, the associated user, and the specific instance of the module.

# **Common event types**

In Moodle, **event types** represent different activities or actions that occur within the system. These events are tracked and recorded in Moodle’s **event log** (or **event system**) and can be used for various purposes, such as auditing, reporting, and triggering actions in external systems. Here’s a list of common **event types** in Moodle:

**1. Course-related Events:**

* **course\_created**: When a new course is created.
* **course\_deleted**: When a course is deleted.
* **course\_updated**: When a course is updated (e.g., changes in course settings).
* **course\_viewed**: When a user views a course page.
* **course\_access**: When a user accesses a course.
* **course\_completions\_updated**: When a user's course completion status is updated.

**2. User-related Events:**

* **user\_loggedin**: When a user logs in to Moodle.
* **user\_loggedout**: When a user logs out of Moodle.
* **user\_created**: When a new user is created.
* **user\_updated**: When a user’s profile or settings are updated.
* **user\_deleted**: When a user is deleted.
* **user\_password\_changed**: When a user changes their password.

**3. Assignment-related Events:**

* **assignment\_submitted**: When a student submits an assignment.
* **assignment\_graded**: When an assignment is graded.
* **assignment\_grade\_updated**: When an assignment grade is updated.
* **assignment\_viewed**: When an assignment is viewed.

**4. Quiz-related Events:**

* **quiz\_started**: When a student starts a quiz.
* **quiz\_attempt\_started**: When a quiz attempt begins.
* **quiz\_attempt\_submitted**: When a student submits their quiz attempt.
* **quiz\_graded**: When a quiz is graded.
* **quiz\_reviewed**: When a student reviews a quiz attempt.

**5. Forum-related Events:**

* **forum\_posted**: When a user posts in a forum.
* **forum\_discussion\_created**: When a new discussion is created in a forum.
* **forum\_post\_edited**: When a forum post is edited.
* **forum\_post\_deleted**: When a forum post is deleted.

**6. Resource-related Events:**

* **resource\_viewed**: When a user views a resource (e.g., a file, a page, or an external URL).
* **resource\_downloaded**: When a file resource is downloaded by a user.

**7. Activity Completion-related Events:**

* **activity\_completed**: When a user completes an activity (e.g., quiz, assignment).
* **activity\_started**: When a user starts an activity.

**8. Grade-related Events:**

* **grade\_item\_updated**: When a grade item is updated (e.g., in a gradebook).
* **grade\_item\_graded**: When a grade item is graded or re-graded.

**9. Messaging and Notifications:**

* **message\_sent**: When a user sends a message within Moodle.
* **message\_received**: When a user receives a message.
* **notification\_sent**: When a system notification is sent.

**10. Enrolment-related Events:**

* **user\_enrolled**: When a user is enrolled in a course.
* **user\_unenrolled**: When a user is unenrolled from a course.
* **user\_enrolment\_updated**: When a user’s enrolment in a course is updated (e.g., role changes).

**11. Gradebook Events:**

* **grade\_item\_added**: When a new grade item is added to the gradebook.
* **grade\_item\_deleted**: When a grade item is deleted from the gradebook.
* **grade\_category\_added**: When a grade category is added to the gradebook.
* **grade\_category\_updated**: When a grade category is updated.

**12. File-related Events:**

* **file\_uploaded**: When a file is uploaded to Moodle (e.g., by an instructor or student).
* **file\_deleted**: When a file is deleted from Moodle.
* **file\_updated**: When a file is updated (e.g., a new version uploaded).

**13. Group-related Events:**

* **group\_created**: When a group is created in a course.
* **group\_updated**: When a group is updated (e.g., members are added or removed).
* **group\_deleted**: When a group is deleted.

**14. External Tool (LTI) Events:**

* **tool\_launch**: When a user launches an external tool (e.g., an LTI tool).
* **tool\_grade\_received**: When a grade is received from an external tool.

**15. General System Events:**

* **login\_failed**: When a user login attempt fails.
* **login\_suspended**: When a user's account is suspended.
* **user\_preferences\_updated**: When a user's preferences are updated.

# **Core Moodle Events (Key Categories):**

There are **several categories of events** in Moodle, each corresponding to different actions in the system. Below are the **main event categories**:

**1. User Events**

* **User Login** (user\_loggedin, user\_loggedout)
* **User Profile Updates** (user\_profile\_viewed, user\_profile\_updated)
* **User Password Change** (user\_password\_reset, user\_password\_changed)
* **User Created/Deleted** (user\_created, user\_deleted)

**2. Course Events**

* **Course Creation/Deletion** (course\_created, course\_deleted)
* **Course Enrollments** (course\_enrolled, course\_unenrolled)
* **Course Visibility** (course\_visibility\_changed)
* **Course Completion** (course\_completions\_updated, course\_completions\_reported)

**3. Activity/Module Events**

* **Activity Viewing** (module\_viewed, module\_started, module\_completed)
* **Activity Grading** (grade\_item\_updated, grade\_item\_deleted, grade\_item\_graded)
* **Assignment Submissions** (assignment\_submission\_submitted, assignment\_submission\_graded)
* **Forum Posts** (forum\_post\_created, forum\_post\_edited, forum\_post\_deleted)
* **Quiz Attempts** (quiz\_attempt\_started, quiz\_attempt\_ended, quiz\_attempt\_graded)

**4. File Events**

* **File Uploads** (file\_uploaded, file\_deleted)
* **File View** (file\_viewed)
* **File Download** (file\_downloaded)

**5. Group Events**

* **Group Creation** (group\_created, group\_deleted)
* **Group Enrollment** (group\_member\_added, group\_member\_removed)

**6. Forum Events**

* **Discussion Creation** (discussion\_created, discussion\_updated, discussion\_deleted)
* **Post Events** (post\_created, post\_updated, post\_deleted)

**7. Grade Events**

* **Grade Item Events** (grade\_item\_created, grade\_item\_updated, grade\_item\_deleted)
* **Grade Submission Events** (grade\_submitted, grade\_exported)

**8. Survey and Feedback Events**

* **Survey Responses** (survey\_response\_created, survey\_response\_updated)
* **Feedback Submission** (feedback\_submission\_created, feedback\_submission\_updated)

**9. Miscellaneous Events**

* **Logins to External Tools** (external\_tool\_launched)
* **Calendar Events** (calendar\_event\_created, calendar\_event\_updated, calendar\_event\_deleted)

**Event Logging System**

Moodle uses an **event logging system** (introduced in Moodle 2.x) that tracks over **50+ events** by default in its core installation. These events cover a wide range of system interactions, including activity logs, user actions, content submissions, and course interactions.

**Plugin Events**

When you install plugins, they may also introduce their own custom events depending on the functionality they provide. For example:

* **BigBlueButton** (for video conferencing) might log events related to meeting creation, joining, and leaving.
* **Turnitin** might log events related to plagiarism detection and report generation.
* **H5P** could have events related to interactive content creation and completion.

**Total Number of Events**

In a **basic Moodle installation**, without additional plugins, there are likely **50+ core events**. When you add custom plugins or integrations, the total number of events could easily exceed **100** or more, depending on the configuration of your Moodle platform.

If you need a specific count or details for your Moodle installation, you could check the **event logs** directly or use the Moodle event API to get a list of events. Would you like assistance with that?

# **Summary of Key Events**

| **Module Type** | **Event Name** | **Description** |
| --- | --- | --- |
| **Assignment** | mod\_assignment\_submission\_created | When a student submits an assignment. |
|  | mod\_assignment\_submission\_updated | When a student updates a previously submitted assignment. |
|  | mod\_assignment\_submission\_graded | When an assignment is graded. |
| **Quiz** | mod\_quiz\_attempt\_submitted | When a student submits a quiz attempt. |
|  | mod\_quiz\_grading\_updated | When the grade for a quiz attempt is updated. |
| **Forum** | mod\_forum\_post\_created | When a student creates a new forum post. |
|  | mod\_forum\_post\_graded | When a forum post is graded. |
| **Choice** | mod\_choice\_answer\_submitted | When a student submits a response to a choice activity. |
| **Survey** | mod\_survey\_answer\_submitted | When a student submits a response to a survey activity. |
| **Wiki** | mod\_wiki\_page\_created | When a student creates a page in a wiki. |
| **Feedback** | mod\_feedback\_submit | When a student submits a feedback response. |
| **Lesson** | mod\_lesson\_answer\_submitted | When a student submits an answer in a lesson activity. |
| **File** | core\_file\_downloaded | When a student downloads a file from the course. |
| **Page** | core\_course\_module\_viewed | When a student views a page resource. |
| **URL** | mod\_url\_viewed | When a student views a URL resource. |
| **SCORM** | mod\_scorm\_course\_module\_viewed | When a student views a SCORM resource. |
| **Book** | mod\_book\_viewed | When a student views a book resource. |
| **Folder** | mod\_folder\_viewed | When a student views a folder resource. |

# **List of the standard activity types** **in Moodle**

1. **Assignment**
2. **Forum**
3. **Quiz**
4. **Choice**
5. **Wiki**
6. **Chat**
7. **Lesson**
8. **SCORM Package**
9. **File**
10. **Page**
11. **Book**
12. **Survey**
13. **Feedback**
14. **Glossary**
15. **Workshop**
16. **Attendance**
17. **External Tool**
18. **Link**
19. **Badge**
20. **Database**
21. **URL**
22. **Calendar**
23. **H5P Interactive Content** (if enabled via plugin)

### ****Additional Activities (via Plugins)****

If additional plugins are installed, Moodle can support more activity types, such as:

* **Padlet** (interactive boards)
* **Turnitin** (plagiarism detection and assignment submission)
* **BigBlueButton** (live web conferencing)
* **Kaltura** (video-based learning)
* **Mentimeter** (interactive presentations)
* **Google Apps integration** (Docs, Drive, Sheets)

This makes the total number of activity types potentially more than **20** in a standard Moodle setup.

# **Events for Activities in Moodle**

In Moodle, each activity module triggers specific **events** that are logged and can be monitored for reporting, analytics, or notifications. These events represent actions such as submissions, views, updates, and deletions. Administrators can view a comprehensive list of these events via **Site administration > Reports > Events list**, filtering by component (e.g., Assignment, Forum) and event type (e.g., Create, Read, Update, Delete).​

### 1. ****Assignment****

* **submission\_created**: A student has created a new submission.
* **submission\_updated**: A student has updated their submission.
* **submission\_graded**: An instructor has graded a submission.
* **feedback\_viewed**: A student has viewed feedback on their submission.
* **extension\_granted**: An extension has been granted for a submission.
* **submission\_locked**: A submission has been locked from further edits.
* **submission\_unlocked**: A previously locked submission has been unlocked.
* **submission\_removed**: A submission has been removed.
* **workflow\_state\_updated**: The workflow state of a submission has been updated.
* **identities\_revealed**: Student identities have been revealed after blind marking.​

### 2. ****Forum****

* **discussion\_created**: A new discussion has been started.
* **post\_created**: A new post has been added to a discussion.
* **post\_updated**: An existing post has been edited.
* **post\_deleted**: A post has been deleted.
* **discussion\_viewed**: A discussion has been viewed.
* **post\_viewed**: A specific post has been viewed.
* **subscription\_created**: A user has subscribed to a forum.
* **subscription\_deleted**: A user has unsubscribed from a forum.​

### 3. ****Quiz****

* **attempt\_started**: A quiz attempt has been started.
* **attempt\_submitted**: A quiz attempt has been submitted.
* **attempt\_abandoned**: A quiz attempt has been abandoned.
* **attempt\_reviewed**: A quiz attempt has been reviewed.
* **question\_viewed**: A quiz question has been viewed.
* **question\_answered**: A quiz question has been answered.​

### 4. ****Choice****

* **choice\_answered**: A user has submitted an answer to a choice activity.
* **report\_viewed**: The choice activity report has been viewed.​

### 5. ****Wiki****

* **page\_created**: A new wiki page has been created.
* **page\_updated**: An existing wiki page has been updated.
* **page\_deleted**: A wiki page has been deleted.
* **page\_viewed**: A wiki page has been viewed.
* **page\_map\_viewed**: The map of wiki pages has been viewed.
* **page\_history\_viewed**: The history of a wiki page has been viewed.
* **page\_diff\_viewed**: Differences between wiki page versions have been viewed.
* **page\_version\_viewed**: A specific version of a wiki page has been viewed.
* **page\_version\_deleted**: A version of a wiki page has been deleted.
* **page\_version\_restored**: A version of a wiki page has been restored.​

### 6. ****Chat****

* **message\_sent**: A message has been sent in a chat session.
* **sessions\_viewed**: Chat sessions have been viewed.​

### 7. ****Lesson****

* **lesson\_started**: A lesson has been started.
* **lesson\_completed**: A lesson has been completed.
* **page\_viewed**: A page within a lesson has been viewed.
* **answer\_submitted**: An answer has been submitted within a lesson.​ 8. **SCORM Package**
* **sco\_launched**: A SCORM package has been launched.
* **sco\_completed**: A SCORM package has been completed.
* **sco\_attempted**: A SCORM package has been attempted.​

### 9. ****File****

* **resource\_viewed**: A file resource has been viewed.​

### 10. ****Page****

* **page\_viewed**: A page resource has been viewed.​

### 11. ****Book****

* **chapter\_created**: A new chapter has been created in a book.
* **chapter\_updated**: An existing chapter has been updated.
* **chapter\_deleted**: A chapter has been deleted from a book.
* **chapter\_viewed**: A chapter in a book has been viewed.​

### 12. ****Survey****

* **survey\_submitted**: A survey has been submitted.
* **survey\_viewed**: A survey has been viewed.​

### 13. ****Feedback****

* **feedback\_submitted**: Feedback has been submitted.
* **feedback\_viewed**: Feedback has been viewed.​ 14. **Glossary**
* **entry\_created**: A new glossary entry has been created.
* **entry\_updated**: An existing glossary entry has been updated.
* **entry\_deleted**: A

# **Events for Resources in Moodle**

In Moodle, **resources** are non-interactive content items such as files, pages, or links that instructors provide to learners. Each resource type triggers specific **events** when users interact with them—these events are logged and can be monitored for reporting, analytics, or notifications. Administrators can view a comprehensive list of these events via **Site administration > Reports > Events list**, filtering by component (e.g., File, Page) and event type (e.g., Create, Read, Update, Delete). Below is an overview of common events associated with each Moodle resource:

1. **File Resource**
   * core\_file\_downloaded
     + Triggered when a student downloads a file (e.g., PDF, DOC, etc.) from the course.
   * core\_course\_module\_viewed
     + Triggered when a student views a file in the course (this is the generic event for most resources, including files).
2. **Page Resource**
   * core\_course\_module\_viewed
     + Triggered when a student views a page resource in the course.
   * core\_course\_module\_accessed
     + Triggered when a student accesses a page resource in the course.
3. **URL Resource**
   * mod\_url\_viewed
     + Triggered when a student clicks and views a URL resource in the course.
4. **SCORM Resource**
   * mod\_scorm\_course\_module\_viewed
     + Triggered when a student views a SCORM package in the course.
   * mod\_scorm\_attempt\_started
     + Triggered when a student starts a SCORM attempt.
   * mod\_scorm\_attempt\_completed
     + Triggered when a student completes a SCORM attempt.
5. **Book Resource**
   * mod\_book\_viewed
     + Triggered when a student views a page or chapter within a Book resource.
6. **Folder Resource**
   * mod\_folder\_viewed
     + Triggered when a student views or accesses a folder resource.
7. **5. Label**

* **label\_viewed**: A user has viewed a label resource.

# **Common Events for Resource Activities in Moodle:**

1. **Resource Viewed**:
   * **Event Name**: core\_course\_module\_viewed
   * **Description**: Triggered when a student views a resource (like a file, page, or URL).
   * **Example**: A student views a PDF file or a page within the course.
2. **File Downloaded**:
   * **Event Name**: core\_file\_downloaded
   * **Description**: Triggered when a student downloads a file from a resource.
   * **Example**: A student downloads a syllabus or a lecture file in PDF format.
3. **Resource Accessed**:
   * **Event Name**: core\_course\_module\_accessed
   * **Description**: Triggered when a student opens and interacts with a resource.
   * **Example**: A student clicks on a link to an external website (URL resource).
4. **Page Viewed**:
   * **Event Name**: core\_course\_module\_viewed
   * **Description**: Triggered when a student views a specific page resource in the course.
   * **Example**: A student accesses and views the content of a course page.
5. **SCORM Package Accessed**:
   * **Event Name**: mod\_scorm\_course\_module\_viewed
   * **Description**: Triggered when a student accesses a SCORM package resource.
   * **Example**: A student opens a SCORM package containing interactive content or learning modules.
6. **URL Clicked**:
   * **Event Name**: mod\_url\_viewed
   * **Description**: Triggered when a student clicks on a URL resource and opens the linked website.
   * **Example**: A student clicks on a link to external resources or websites.
7. **Resource Interaction** (e.g., Book):
   * **Event Name**: mod\_book\_viewed
   * **Description**: Triggered when a student opens and navigates through a **Book** resource in Moodle.
   * **Example**: A student opens a chapter of an online book or document.

# **Felder-Silverman learning styles mapping**

Felder-Silverman learning styles focus on different ways that people prefer to learn. The model identifies four dimensions:

1. **Active/Reflective**: How learners prefer to engage with material (doing vs. thinking about it).
2. **Sensing/Intuitive**: How learners prefer to receive information (facts vs. concepts).
3. **Visual/Verbal**: How learners prefer to process information (images vs. words).
4. **Sequential/Global**: How learners prefer to process information (step-by-step vs. big picture).

To tie Moodle activities and resources to these learning styles, we can look at the types of events generated by each and how they align with the dimensions of the Felder-Silverman model.

### ****Active/Reflective****

* **Active Learners**: Prefer hands-on learning or interactive activities.
  + **Moodle Events**:
    - **Forum Posts**: Active learners engage by contributing to discussions.
    - **Quiz Attempts**: Interaction with immediate feedback.
    - **Assignments**: Completion of tasks or projects with immediate action.
  + **Resources**:
    - **Glossary**: Engage by adding new terms, contributing definitions, etc.
  + **Learning Style Connection**: Events tied to these resources help students practice and apply knowledge in active ways.
* **Reflective Learners**: Prefer to think and process before acting.
  + **Moodle Events**:
    - **Forum Read Posts**: Reflective learners might prefer reading and pondering over discussion posts.
    - **Survey**: Activities where learners reflect on their learning.
    - **Lesson**: Allows for individual navigation and reflection over steps.
  + **Resources**:
    - **Book**: Self-paced reading and reflection.
  + **Learning Style Connection**: These events allow for thinking, synthesizing, and analyzing content more quietly.

### ****Sensing/Intuitive****

* **Sensing Learners**: Prefer concrete, factual information.
  + **Moodle Events**:
    - **Quiz Attempts**: A preference for facts and straightforward content that tests understanding.
    - **Assignment Submissions**: Focus on tangible outputs.
  + **Resources**:
    - **Page**: Basic, fact-based presentation of content.
    - **Database**: Collecting concrete data for reference.
  + **Learning Style Connection**: These events and resources focus on the practical, factual aspect of learning.
* **Intuitive Learners**: Prefer abstract ideas and concepts.
  + **Moodle Events**:
    - **Forum Discussions**: Where learners can explore theoretical or conceptual ideas.
    - **Lesson Completion**: Allows them to navigate through concepts, theories, and patterns.
  + **Resources**:
    - **Book**: Detailed, concept-heavy material.
    - **Wiki**: Collaborative creation of conceptual knowledge.
  + **Learning Style Connection**: These learners benefit from events/resources that encourage exploration of concepts and relationships.

### ****Visual/Verbal****

* **Visual Learners**: Prefer information presented in pictures, diagrams, or charts.
  + **Moodle Events**:
    - **Quiz Attempts**: If visual content like diagrams or videos is included.
    - **Assignment Submissions**: Where visual aids (graphs, images, etc.) are incorporated.
  + **Resources**:
    - **File**: Uploading images, diagrams, or presentations.
    - **Video**: Engaging with multimedia content.
  + **Learning Style Connection**: These learners thrive on events that include visual stimuli.
* **Verbal Learners**: Prefer information in written or spoken form.
  + **Moodle Events**:
    - **Forum Posts**: Engaging in written discussions.
    - **Quiz Attempts**: Reading and responding to text-based questions.
    - **Assignment Submissions**: Writing essays or detailed responses.
  + **Resources**:
    - **Book**: Text-heavy content.
    - **Glossary**: Definitions and textual references.
  + **Learning Style Connection**: These learners are better engaged with written or spoken word-based resources.

### ****Sequential/Global****

* **Sequential Learners**: Prefer to learn in steps and logical order.
  + **Moodle Events**:
    - **Lesson Completion**: Sequential structure with logical progression.
    - **Quiz Attempts**: With clear steps or sections in content.
  + **Resources**:
    - **Lesson**: Progressive learning.
    - **Assignment**: Step-by-step tasks.
  + **Learning Style Connection**: Sequential learners benefit from structured, step-by-step resources and events.
* **Global Learners**: Prefer a holistic approach and to understand the "big picture."
  + **Moodle Events**:
    - **Forum Discussions**: Engage in discussions that cover broad concepts.
    - **Assignment Submissions**: Where a larger project or report is required to integrate various concepts.
  + **Resources**:
    - **Book**: Provides an overall perspective on a topic.
    - **Wiki**: Collaborative, big-picture creation of knowledge.
  + **Learning Style Connection**: Global learners thrive when they are able to see the broader context or overview.

By matching these learning styles with the appropriate Moodle resources and events, you can provide a more tailored experience for learners, helping them engage in a way that suits their preferred learning style. Let me know if you want specific examples for a particular activity!

# **Mapping of events to learning styles by event**

|  |  |  |
| --- | --- | --- |
| **1. Assignment** |  |  |
| Event | Learning Style Dimension | Reason |
| submission\_created | Active | Creating work through engagement. |
| submission\_updated | Active | Iterative engagement with a task. |
| submission\_graded | Reflective | Provides feedback for thought. |
| feedback\_viewed | Reflective | Encourages self-assessment. |
| extension\_granted | Sensing | Practicality, time management. |
| submission\_locked | Sensing | Structured deadline enforcement. |
| submission\_unlocked | Sensing | Managing details and adjustments. |
| submission\_removed | Sensing | Administrative/practical task. |
| workflow\_state\_updated | Sequential | Tracks stage-based progress. |
| identities\_revealed | Reflective | Encourages introspection after anonymity. |
| **2. Forum** |  |  |
| Event | Learning Style Dimension | Reason |
| discussion\_created | Verbal | Starting textual discussions. |
| post\_created | Verbal | Written communication. |
| post\_updated | Reflective | Revising expression after thought. |
| post\_deleted | Reflective | Consideration after posting. |
| discussion\_viewed | Verbal | Reading discussion input. |
| post\_viewed | Verbal | Absorbing written content. |
| subscription\_created | Active | Opting into engagement. |
| subscription\_deleted | Reflective | Choosing to disengage. |
| **3. Quiz** |  |  |
| Event | Learning Style Dimension | Reason |
| attempt\_started | Active | Initiating assessment. |
| attempt\_submitted | Reflective | Completion through thought. |
| attempt\_abandoned | Reflective | Choice to withdraw, self-assessment. |
| attempt\_reviewed | Sequential | Step-by-step review. |
| question\_viewed | Sensing | Attention to factual detail. |
| question\_answered | Active | Performing a task through action. |
| **4. Choice** |  |  |
| Event | Learning Style Dimension | Reason |
| choice\_answered | Active | Making a decision. |
| report\_viewed | Reflective | Reviewing outcomes for insight. |
| 5. Wiki |  |  |
| Event | Learning Style Dimension | Reason |
| page\_created | Active | Contributing content. |
| page\_updated | Active | Editing requires engagement. |
| page\_deleted | Reflective | Removal after review. |
| page\_viewed | Verbal | Reading content. |
| page\_map\_viewed | Global | Overview of wiki structure. |
| page\_history\_viewed | Reflective | Tracing change over time. |
| page\_diff\_viewed | Reflective | Comparing details analytically. |
| page\_version\_viewed | Sequential | Version control reflects steps. |
| page\_version\_deleted | Sensing | Managing concrete content. |
| page\_version\_restored | Sensing | Practical restoration task. |
| **6. Chat** |  |  |
| Event | Learning Style Dimension | Reason |
| message\_sent | Verbal | Expressing via language. |
| sessions\_viewed | Reflective | Reviewing discussion history. |
| **7. Lesson** |  |  |
| Event | Learning Style Dimension | Reason |
| lesson\_started | Active | Beginning learning by doing. |
| lesson\_completed | Sequential | Completing structured flow. |
| page\_viewed | Verbal | Consuming written content. |
| answer\_submitted | Active | Input through engagement. |
| **8. SCORM Package** |  |  |
| Event | Learning Style Dimension | Reason |
| sco\_launched | Active | Starting interactive content. |
| sco\_completed | Sequential | Progressing through structured material. |
| sco\_attempted | Active | Participating in content. |
| **9. File** |  |  |
| Event | Learning Style Dimension | Reason |
| resource\_viewed | Visual | Viewing file-based content. |
| 10. Page |  |  |
| Event | Learning Style Dimension | Reason |
| page\_viewed | Verbal | Reading learning material. |
| **11. Book** |  |  |
| Event | Learning Style Dimension | Reason |
| chapter\_created | Active | Creating structured learning content. |
| chapter\_updated | Active | Editing with engagement. |
| chapter\_deleted | Reflective | Considering removal. |
| chapter\_viewed | Sequential | Step-by-step consumption. |
| 12. Survey |  |  |
| Event | Learning Style Dimension | Reason |
| survey\_submitted | Reflective | Expression of opinion/feedback. |
| survey\_viewed | Verbal | Reading and interpreting questions. |
| **13. Feedback** |  |  |
| Event | Learning Style Dimension | Reason |
| feedback\_submitted | Reflective | Thoughtful response/action. |
| feedback\_viewed | Reflective | Reviewing insight from others. |
| 14. Glossary |  |  |
| Event | Learning Style Dimension | Reason |
| entry\_created | Verbal | Writing definitions. |
| entry\_updated | Reflective | Refining entries. |
| entry\_deleted | Reflective | Thoughtful deletion of knowledge. |

# **Mapping of events to learning styles by learning style**

**Sequential**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Moodle Event** | **Description** |
| Quiz | attempt\_started / attempt\_submitted | Starting and submitting quizzes in order. |
| Lesson | lesson\_started / lesson\_completed / page\_viewed | Following a lesson step by step. |
| SCORM | sco\_launched / sco\_completed | Completing SCORM modules sequentially. |
| Assignment | submission\_created / submission\_updated | Consistent workflow in submitting assignments. |
| Book | chapter\_viewed | Navigating through structured chapters. |
| Feedback | feedback\_submitted | Participating in structured activities. |
| Choice | choice\_answered | Selecting answers as part of a structured decision. |

**Global**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Moodle Event** | **Description** |
| Forum | discussion\_viewed / post\_viewed | Skimming discussions to understand broader topics. |
| Wiki | page\_map\_viewed / page\_diff\_viewed / page\_history\_viewed | Exploring the overall structure and evolution of content. |
| Lesson | page\_viewed (non-linear) | Jumping to specific pages out of sequence. |
| Book | chapter\_created / chapter\_deleted | Creating content to reflect their understanding. |
| SCORM | sco\_attempted | Attempting different packages out of order. |
| Calendar | calendar\_viewed | Scanning the entire timeline. |
| Glossary | entry\_viewed / entry\_created | Accessing key terms across topics. |

**Active**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Moodle Event** | **Description** |
| Forum | post\_created / post\_updated | Actively participating by creating and updating posts. |
| Chat | message\_sent | Engaging in live chat sessions with others. |
| Wiki | page\_created / page\_updated | Actively contributing to creating or updating wiki pages. |
| Quiz | attempt\_started / attempt\_submitted | Taking quizzes actively and submitting answers. |
| Lesson | answer\_submitted | Answering questions actively during lessons. |
| Assignment | submission\_created / submission\_updated | Actively submitting and updating assignments. |
| Choice | choice\_answered | Answering choice-based activities quickly and engaging with them. |
| Feedback | feedback\_submitted | Actively submitting feedback forms. |

**Reflective**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Moodle Event** | **Description** |
| Forum | discussion\_viewed / post\_viewed | Reviewing discussions and posts before contributing. |
| Wiki | page\_history\_viewed / page\_diff\_viewed | Reviewing the history or differences between versions before editing. |
| Quiz | attempt\_reviewed | Reflecting on their quiz attempts after submission. |
| Lesson | lesson\_started / lesson\_completed | Starting and completing lessons at their own pace, reflecting on each step. |
| Assignment | submission\_graded / feedback\_viewed | Reflecting on graded submissions and feedback before making changes. |
| Choice | report\_viewed | Reflecting on results from the choice activity reports before engaging further. |
| SCORM | sco\_completed / sco\_reviewed | Reflecting after completing SCORM modules. |

**Sensing**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Moodle Event** | **Description** |
| Assignment | submission\_graded / submission\_updated | Sensing learners may be focused on detailed feedback, clear expectations, and practical outcomes like grades. |
| Quiz | question\_answered | Sensing learners are more likely to approach quizzes with a focus on answering factual questions based on clear material. |
| Lesson | page\_viewed | They engage with lessons in a step-by-step manner, focusing on concrete material and progressing sequentially through pages. |
| SCORM Package | sco\_attempted / sco\_completed | Sensing learners tend to approach SCORM modules practically, completing them based on the concrete tasks provided. |
| Wiki | page\_created / page\_updated | Sensing learners may create or update pages based on specific details and concrete content, avoiding abstract or theoretical discussions. |
| Forum | post\_created / post\_updated | They are more likely to participate in forums with clear, factual content, responding to specific topics with detailed posts. |
| File | resource\_viewed | Viewing files as concrete resources to gather detailed information, focusing on the materialвЂ™s specifics. |
| Book | chapter\_viewed | Sensing learners might read chapters in sequence, focusing on understanding concrete details from each section. |

**Intuitive**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Moodle Event** | **Description** |
| Assignment | feedback\_viewed | Intuitive learners may focus more on overall feedback and the broader ideas or themes addressed in assignments. |
| Quiz | attempt\_reviewed | Reviewing the quiz attempt with an interest in understanding the underlying concepts behind the questions and answers. |
| Lesson | lesson\_started / lesson\_completed | They are likely to engage with lessons from a high-level perspective, starting and completing the lesson based on the broader learning goals. |
| SCORM Package | sco\_launched / sco\_completed | Intuitive learners might launch SCORM packages with an interest in the overall content, making connections across various topics. |
| Wiki | page\_map\_viewed | Viewing the wiki page map as a way to get an overview of how content fits together and the broader ideas behind it. |
| Forum | discussion\_created | Creating discussions that explore abstract ideas, theories, or possible connections between different concepts. |
| File | resource\_viewed | Viewing files with a focus on the big picture, understanding concepts from a more abstract perspective. |
| Book | chapter\_created | Intuitive learners may engage with books at a high level, creating chapters based on broader themes or conceptual discussions. |

**Visual**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Moodle Event** | **Description** |
| Assignment | submission\_graded | Visual learners may benefit from visual feedback, such as annotated submissions or diagrams provided as part of the grading. |
| Quiz | question\_viewed | Visual learners are more likely to remember the questions and answers if they are presented with visual elements, like diagrams or images alongside the questions. |
| Lesson | page\_viewed | They engage with lessons that have visual elements such as infographics, diagrams, or embedded media like videos or slideshows. |
| SCORM Package | sco\_launched | SCORM packages that contain visual content (videos, images, infographics) would be especially appealing to visual learners. |
| Wiki | page\_viewed | Viewing pages that have rich visual content (charts, images, graphs) would cater to visual learners. |
| Forum | post\_created | Visual learners may prefer to share resources or insights that contain visual aids or diagrams, enhancing their understanding. |
| File | resource\_viewed | Viewing files that contain graphs, images, or charts is appealing to visual learners. |
| Book | chapter\_viewed | Visual learners will appreciate chapters that are rich in visual aids, diagrams, and charts to supplement the written content. |

**Verbal**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Moodle Event** | **Description** |
| Assignment | submission\_created | Verbal learners may excel in expressing their thoughts and understanding by writing detailed submissions that articulate concepts and explanations. |
| Quiz | question\_answered | These learners focus on written responses and might engage with quizzes by carefully reading and writing answers to the questions. |
| Lesson | lesson\_started | Starting a lesson that involves reading and writing would be more suited for verbal learners who prefer detailed explanations. |
| SCORM Package | sco\_completed | SCORM packages that focus on text-based content such as articles, written explanations, and feedback would be more appealing to verbal learners. |
| Wiki | page\_updated | Verbal learners may prefer to update pages with written explanations, refining their understanding through writing. |
| Forum | post\_created | Creating posts with extensive written responses to questions or discussions, especially those that involve detailed explanations and text-based insights. |
| File | resource\_viewed | Verbal learners would engage with text-heavy files, such as PDFs or Word documents that provide detailed explanations and descriptions. |
| Book | chapter\_created | Verbal learners might create chapters that focus heavily on written content, detailed explanations, and textual information. |

# **Mapping Moodle events to** **Felder-Silverman learning style dimensions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Moodle Event** | **Active vs. Reflective** | **Sensing vs. Intuitive** | **Visual vs. Verbal** | **Sequential vs. Global** |
| submission\_created | Active | Sensing | Verbal | Sequential |
| submission\_updated | Active | Sensing | Verbal | Sequential |
| submission\_graded | Reflective | Sensing | Verbal | Sequential |
| feedback\_viewed | Reflective | Sensing | Verbal | Sequential |
| extension\_granted | Reflective | Sensing | Verbal | Sequential |
| submission\_locked | Reflective | Sensing | Verbal | Sequential |
| submission\_unlocked | Active | Sensing | Verbal | Sequential |
| submission\_removed | Reflective | Sensing | Verbal | Sequential |
| workflow\_state\_updated | Reflective | Sensing | Verbal | Sequential |
| identities\_revealed | Reflective | Sensing | Verbal | Sequential |
| discussion\_created | Active | Sensing | Verbal | Sequential |
| post\_created | Active | Sensing | Verbal | Sequential |
| post\_updated | Active | Sensing | Verbal | Sequential |
| post\_deleted | Reflective | Sensing | Verbal | Sequential |
| discussion\_viewed | Reflective | Sensing | Verbal | Sequential |
| post\_viewed | Reflective | Sensing | Verbal | Sequential |
| subscription\_created | Active | Sensing | Verbal | Sequential |
| subscription\_deleted | Reflective | Sensing | Verbal | Sequential |
| attempt\_started | Active | Sensing | Verbal | Sequential |
| attempt\_submitted | Active | Sensing | Verbal | Sequential |
| attempt\_abandoned | Reflective | Sensing | Verbal | Sequential |
| attempt\_reviewed | Reflective | Sensing | Verbal | Sequential |
| question\_viewed | Reflective | Sensing | Visual | Sequential |
| question\_answered | Active | Sensing | Verbal | Sequential |
| choice\_answered | Active | Sensing | Verbal | Sequential |
| report\_viewed | Reflective | Sensing | Visual | Sequential |
| page\_created | Active | Sensing | Visual | Sequential |
| page\_updated | Active | Sensing | Visual | Sequential |
| page\_deleted | Reflective | Sensing | Visual | Sequential |
| page\_viewed | Reflective | Sensing | Visual | Sequential |
| page\_map\_viewed | Reflective | Sensing | Visual | Global |
| page\_history\_viewed | Reflective | Sensing | Visual | Sequential |
| page\_diff\_viewed | Reflective | Sensing | Visual | Sequential |
| page\_version\_viewed | Reflective | Sensing | Visual | Sequential |
| page\_version\_deleted | Reflective | Sensing | Visual | Sequential |
| page\_version\_restored | Active | Sensing | Visual | Sequential |
| message\_sent | Active | Sensing | Verbal | Sequential |
| sessions\_viewed | Reflective | Sensing | Visual | Sequential |
| lesson\_started | Active | Sensing | Visual | Sequential |
| lesson\_completed | Reflective | Sensing | Visual | Sequential |
| page\_viewed | Reflective | Sensing | Visual | Sequential |
| answer\_submitted | Active | Sensing | Verbal | Sequential |
| sco\_launched | Active | Intuitive | Visual | Sequential |
| sco\_completed | Reflective | Intuitive | Visual | Sequential |
| sco\_attempted | Active | Intuitive | Visual | Sequential |
| resource\_viewed | Reflective | Sensing | Visual | Sequential |
| chapter\_created | Active | Sensing | Verbal | Sequential |
| chapter\_updated | Active | Sensing | Verbal | Sequential |
| chapter\_deleted | Reflective | Sensing | Verbal | Sequential |
| chapter\_viewed | Reflective | Sensing | Visual | Sequential |
| survey\_submitted | Active | Sensing | Verbal | Sequential |
| survey\_viewed | Reflective | Sensing | Visual | Sequential |
| feedback\_submitted | Active | Sensing | Verbal | Sequential |
| feedback\_viewed | Reflective | Sensing | Verbal | Sequential |
| entry\_created | Active | Sensing | Verbal | Sequential |
| entry\_updated | Active | Sensing | Verbal | Sequential |
| entry\_deleted | Reflective | Sensing | Verbal | Sequential |

# **Mapping Moodle Activities to FSLSM**

|  |  |  |
| --- | --- | --- |
| **Activity** | **FSLSM Mapping** | **Reasoning** |
| **Forum**, **Chat** | Active, Verbal | Collaborative discussions, verbal engagement, and interaction are key. |
| **Wiki**, **Database** | Active, Global | Group collaboration and content building. More freedom in contributions. |
| **Quiz**, **Assignment** | Reflective, Sequential, Sensing | Individual reflection, structured questions, and fact-based learning. |
| **Lesson**, **Scorm** | Sequential, Visual, Intuitive | Step-by-step learning with multimedia content, providing theoretical and abstract concepts. |
| **File**, **Page**, **Book** | Visual, Verbal | These are content-heavy activities with written material or multimedia, appealing to verbal/visual learners. |
| **Survey**, **Choice** | Reflective, Verbal, Global | Reflective input and feedback based on personal choices or perspectives. |
| **Workshop**, **Assignment** | Active, Reflective, Sequential | Collaborative feedback on submissions or self-paced learning tasks. |

This mapping helps **categorize activities** based on the kind of learner they might engage best (e.g., students who prefer reflection vs. active discussion, sequential tasks vs. big-picture explorations).

|  |  |  |  |
| --- | --- | --- | --- |
| **Active** | **Forum** | Forum Posts, Forum Discussions | Active learners contribute directly to discussions and engage in immediate feedback. |
|  | **Quiz** | Quiz Attempts, Quiz Results | Active learners enjoy testing their knowledge through interactive quizzes. |
|  | **Assignment** | Assignment Submissions | Active learners complete assignments by performing tasks or projects directly. |
| **Reflective** | **Forum** | Forum Reads, Forum Post Viewing | Reflective learners prefer to observe discussions, reflect, and process content before engaging. |
|  | **Lesson** | Lesson Navigation, Lesson Completion | Reflective learners may prefer to navigate and think through a lesson at their own pace. |
|  | **Survey** | Survey Responses | Reflective learners complete surveys that prompt self-reflection. |
| **Sensing** | **Quiz** | Quiz Attempts, Quiz Results | Sensing learners prefer quizzes with factual, concrete content and clear answers. |
|  | **Assignment** | Assignment Submissions (fact-based tasks) | Sensing learners engage in assignments focused on concrete facts and practical tasks. |
|  | **Page** | Page Views, Content Viewing | Sensing learners benefit from factual, straightforward information provided in pages. |
| **Intuitive** | **Forum** | Forum Posts, Forum Discussions | Intuitive learners thrive in abstract discussions and theoretical concepts shared in forums. |
|  | **Lesson** | Lesson Navigation, Concept Exploration | Intuitive learners appreciate lessons that explore concepts and big-picture thinking. |
|  | **Wiki** | Wiki Contributions | Intuitive learners engage in collaborative knowledge creation, focusing on theories and concepts. |
| **Visual** | **File** | File Downloads, File Views | Visual learners prefer resources like images, diagrams, and presentations to absorb content. |
|  | **Video** | Video Watching | Visual learners benefit from videos that visually represent concepts, such as tutorials or demonstrations. |
|  | **Assignment** | Assignment Submissions (with visual aids) | Visual learners enhance assignments with diagrams, charts, and visual content. |
| **Verbal** | **Forum** | Forum Posts, Forum Discussions | Verbal learners enjoy writing and reading text-based discussions and posts. |
|  | **Quiz** | Quiz Attempts, Text-based Quiz Results | Verbal learners prefer text-based quizzes and detailed written explanations. |
|  | **Book** | Book Views, Text-based Resource Viewing | Verbal learners benefit from text-heavy resources like books and articles. |
| **Sequential** | **Lesson** | Lesson Completion, Step-by-Step Navigation | Sequential learners prefer structured lessons with clear, logical progression. |
|  | **Quiz** | Quiz Attempts, Quiz Navigation | Sequential learners engage with quizzes that follow a clear, stepwise structure. |
|  | **Assignment** | Assignment Submissions (step-by-step tasks) | Sequential learners work on assignments that require methodical, step-by-step completion. |
| **Global** | **Forum** | Forum Discussions, Large-Scale Conversations | Global learners thrive in forums where big-picture ideas and holistic discussions are the focus. |
|  | **Wiki** | Wiki Contributions, Large Projects | Global learners excel in collaborative projects that synthesize and integrate broad knowledge. |
|  | **Assignment** | Complex Assignment Projects | Global learners excel at assignments that require an understanding of the overall concept or project. |

# **Events for Moodle Resources Tied to Felder-Silverman Learning Styles**

| **Learning Style Dimension** | **Moodle Resource** | **Event Table** | **Fields in Event Table** | **Explanation** |
| --- | --- | --- | --- | --- |
| **Active** | **File** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Active learners may download and open files to engage directly with the material for hands-on learning. |
|  | **Page** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Active learners will navigate through pages, engaging with content immediately (reading, interacting). |
|  | **Book** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Active learners will explore books and resources in an interactive way, perhaps skimming through sections. |
| **Reflective** | **File** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Reflective learners might prefer reading files more carefully and contemplating the material. |
|  | **Page** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Reflective learners spend more time reading and reflecting on page content. |
|  | **Book** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Reflective learners explore books at their own pace, absorbing and reflecting on information. |
| **Sensing** | **File** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Sensing learners interact with files that contain factual and detailed content, such as charts or diagrams. |
|  | **Page** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Sensing learners prefer straightforward, factual content on pages like instructions or concrete examples. |
|  | **Book** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Sensing learners enjoy reading books with practical, concrete information like case studies. |
| **Intuitive** | **File** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Intuitive learners look for files containing abstract concepts, theories, and big-picture ideas. |
|  | **Page** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Intuitive learners engage with pages that explore ideas, theories, and abstract knowledge. |
|  | **Book** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Intuitive learners prefer books that connect various theories and provide a broad overview. |
| **Visual** | **File** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Visual learners engage with files that contain images, diagrams, infographics, and other visual elements. |
|  | **Page** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Visual learners prefer pages with visual elements like graphics, videos, or diagrams. |
|  | **Book** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Visual learners are attracted to books with illustrations, charts, or visual aids to support textual content. |
| **Verbal** | **File** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Verbal learners engage with files that have extensive text-based content like articles, research papers. |
|  | **Page** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Verbal learners appreciate pages with detailed textual explanations and written descriptions. |
|  | **Book** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Verbal learners benefit from books rich in text, offering in-depth explanations and narrative structures. |
| **Sequential** | **File** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Sequential learners may download and view files that follow a logical, step-by-step structure. |
|  | **Page** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Sequential learners engage with pages in a structured sequence, following the order of presented content. |
|  | **Book** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Sequential learners read books with clear, organized content, perhaps breaking it into chapters or sections. |
| **Global** | **File** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Global learners prefer files that present the "big picture," offering high-level overviews or summaries. |
|  | **Page** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Global learners explore pages that provide broader concepts, synthesizing information across topics. |
|  | **Book** | mdl\_logstore\_standard\_log | eventname, userid, courseid, contextinstanceid, timecreated, action | Global learners appreciate books that present a comprehensive understanding or overarching idea. |