

What is flipped classroom? Using Wattle (Moodle) tools for a flipped classroom model

In a traditional teaching model, teachers are responsible for introducing new material and content to students in-class (e.g. lectures) and then assigning activities to be completed after class or at a separate tutorial session.

In a flipped classroom model, content is delivered before class through a series of concise videos, readings, eBooks, PDFs, etc. and students are then expected to actively engage with their peers, lecturers and tutors about the material during class.

To read more about the pedagogical aspects of the Vloflipped model, please visit our [coffee course on Flipping the Classroom](#).

In the guide, we will introduce the tools in Wattle that you can use for a flipped classroom model. Some of these tools may be used under more than one category.

Tools for Content Delivery	Ways you could use this in a flipped classroom model
Lesson	Allows you to organise content for students to either [1] follow the lesson in a linear manner or, [2] branch out to different content relevant to their level of understanding. You can: <ol style="list-style-type: none">1. Build in quizzes amongst content to give students the opportunity to reflect and review on what they have learnt.2. Include branching options for students to either follow a self-directed path or be exposed to materials based on their knowledge of understanding.3. Set up simulations such as presenting a case study and then giving a number of choices to respond to the case.4. Embed video.
Database	Students can contribute resources such as links to journal articles, videos, images that they can share with each other and build into a reusable resource. They can also share they work and comment on others' submissions.
Glossary	Similar to the database, you can use this tool to house definitions and key terms. Students can

	<p>contribute and develop a collaborative collection of glossary items.</p> <p>For online classes, you can consider using the glossary to introduce students to each other (i.e. Each item/entry can be profile of a student).</p>
Adding resources (books, URLs, PDFs, pages, folders, files, etc.)	<p>When you click + Add an activity or resource in your Wattle course, you will find a list of tools (scroll to the bottom) to house resources that students can engage with.</p> <p>Tip: To add videos directly to your Wattle site, simply drag and drop the file into any section and select to add it as a media file. If you are including a video from YouTube or other external media streaming services, add the hyperlink or embed the video in the Label tool.</p>
Echo360 Active Learning Platform (ALP)	<p>Echo360 ALP is the University's lecture capture system. Beyond that, it allows you to:</p> <ol style="list-style-type: none"> 1. Upload videos and presentations 2. Use personal capture to record short videos 3. Engage students through the Q&A function 4. Add interactive slides and activities (e.g. Polls) to receive formative feedback <p>Please visit our website for more information and user guides.</p>

Tools for Online Classes	Ways you could use this in a flipped classroom model
Adobe Connect	<p>A real-time (synchronous) web-conferencing tool. You can use it to:</p> <ol style="list-style-type: none"> 1. Present, explain, chat, demonstrate and engage with students. 2. Incorporate PowerPoint presentations, websites, or other documents. 3. Record the session(s). 4. Create breakout rooms to divide students into groups for activities or discussions 5. Record performative assessment - such as presentations or interviews. <p>Please visit our website for more information and user guides.</p>
Group Selection	Allows you to divide students into groups to work collaboratively on different tasks

Tools for Discussions	Ways you could use this in a flipped classroom model
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Forum	Allows for asynchronous discussions where students could post questions, reflections, materials (e.g. videos) or comments on the content.
Wiki	Allows students to work collaboratively on a problem or task, sharing ideas and resources or preparing group reports, written assignments and documents on a Wiki page (or a series of pages).
Chat	A real-time chatroom. This could be applied to groups to provide them with a text-based discussion space. Alternatively, it can be used as a backend chatroom for clarifying lecture materials, course content, etc.

Tools for Formative Assessment	Ways you could use this in a flipped classroom model
Choice	A polling tool where you can, for example, provide students with choices to select an activity they may want to engage in. You may also use it as a poll to start discussions based on students' knowledge and/or views.
Workshop	Facilitates peer review and provides opportunities to give feedback on students' works.
Quiz for formative assessment	<p>You can use it as a formative or summative assessment tool where students can be quizzed on a series of topics or course content.</p> <p>For formative assessments, the tool can:</p> <ul style="list-style-type: none"> • Allow multiple attempts for students to practice • Remove time limits • Allow immediate feedback, so students can see their results during the attempt (not just afterwards) • Provide feedback on specific answers so students can easily see how to improve

Tools for Summative Assessment	Ways you could use this in a flipped classroom model
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Assignment/Turnitin	Allows students to submit tasks either individually or in groups to which you can grade and provide feedback.
Quiz for summative assessment	<p>You can use it as a formative or summative assessment tool where students can be quizzed on a series of topics or course content.</p> <p>For summative assessment, the tool can:</p> <ul style="list-style-type: none">• Include a set amount of time for the quiz to be completed with a time limit• Provide deferred feedback, after the quiz is closed and all students have completed it• Set a limited number of attempts