# User Guide - BookRoll

# BookRoll as a Reading System

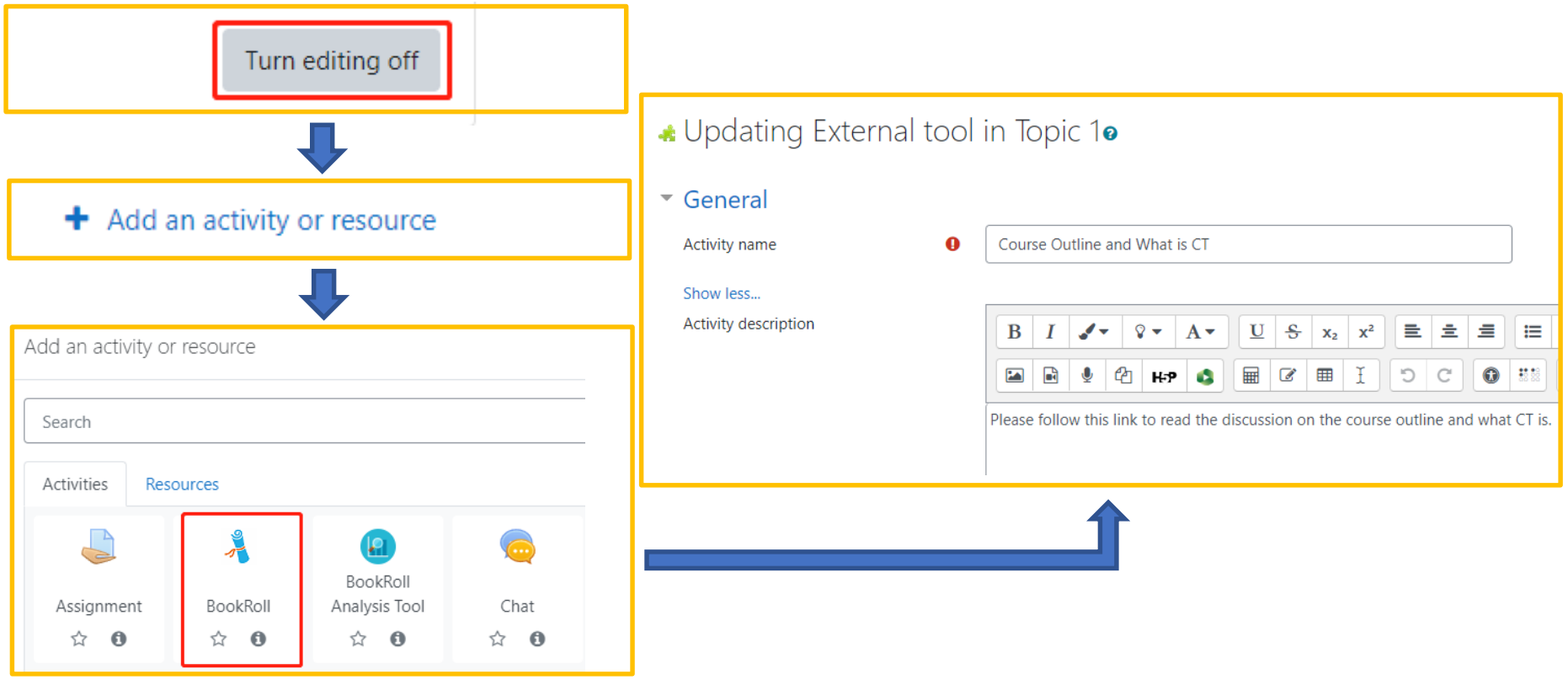
# BookRoll: e-book reading system

- BookRoll is a digital reading system, to record and trace students' learning status through the BookRoll Analysis tool
- The online reading interface allows attaching bookmarks, adding markers, attaching memos, searching keywords.
- Currently BookRoll can only support pdf files.

# BookRoll: e-book reading system

## How to add a new BookRoll activity in Moodle course? (teacher role)

1. Go to Moodle course page and click on “Turn editing on”
2. Click on “Add an activity or resource” -> add a new BookRoll -> input activity name -> save and return to course

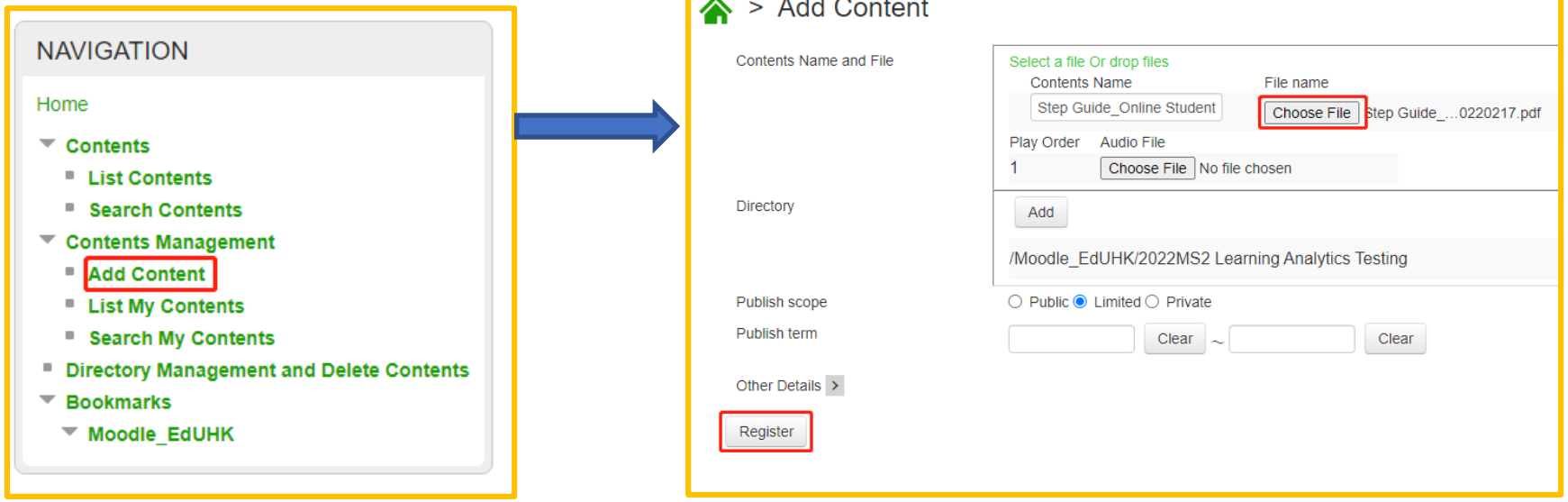


# BookRoll: e-book reading system

## How to add an e-book material in PDF format to BookRoll ? (teacher role)

1. Click on the BookRoll activity that was created -> redirect to BookRoll system

2. Clicking “Add Content” under Contents Management on the left side panel -> choose a file -> clicking “Register”

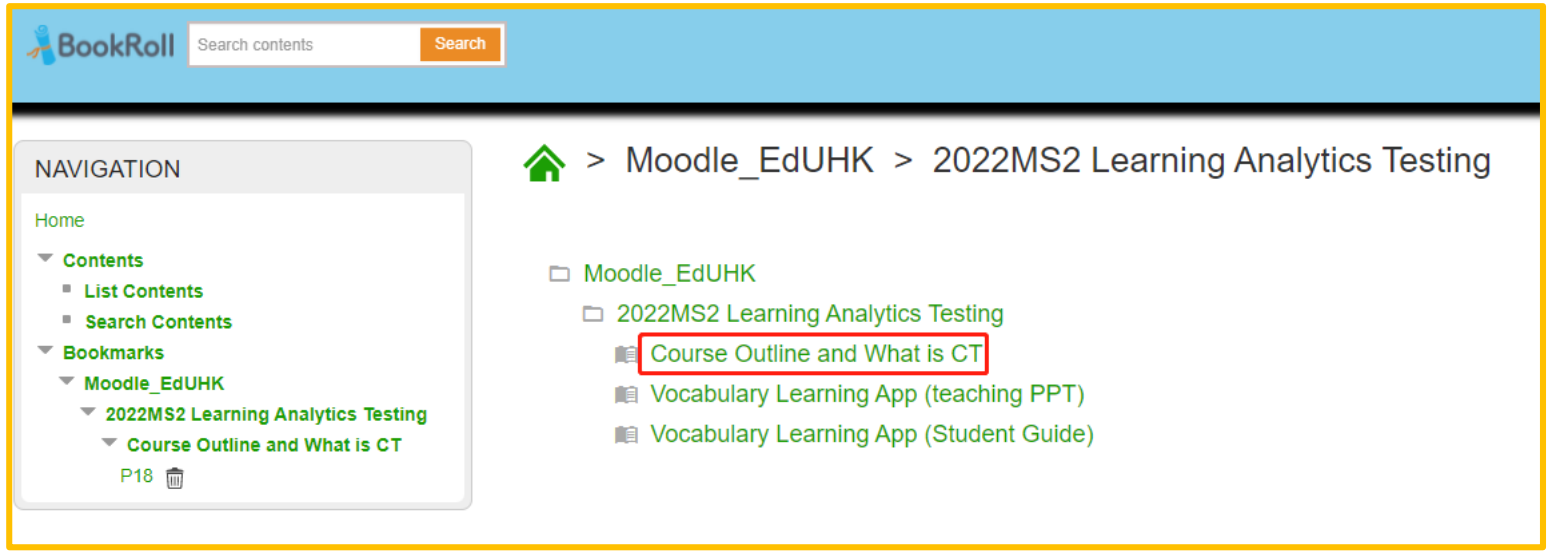


# BookRoll: e-book reading system

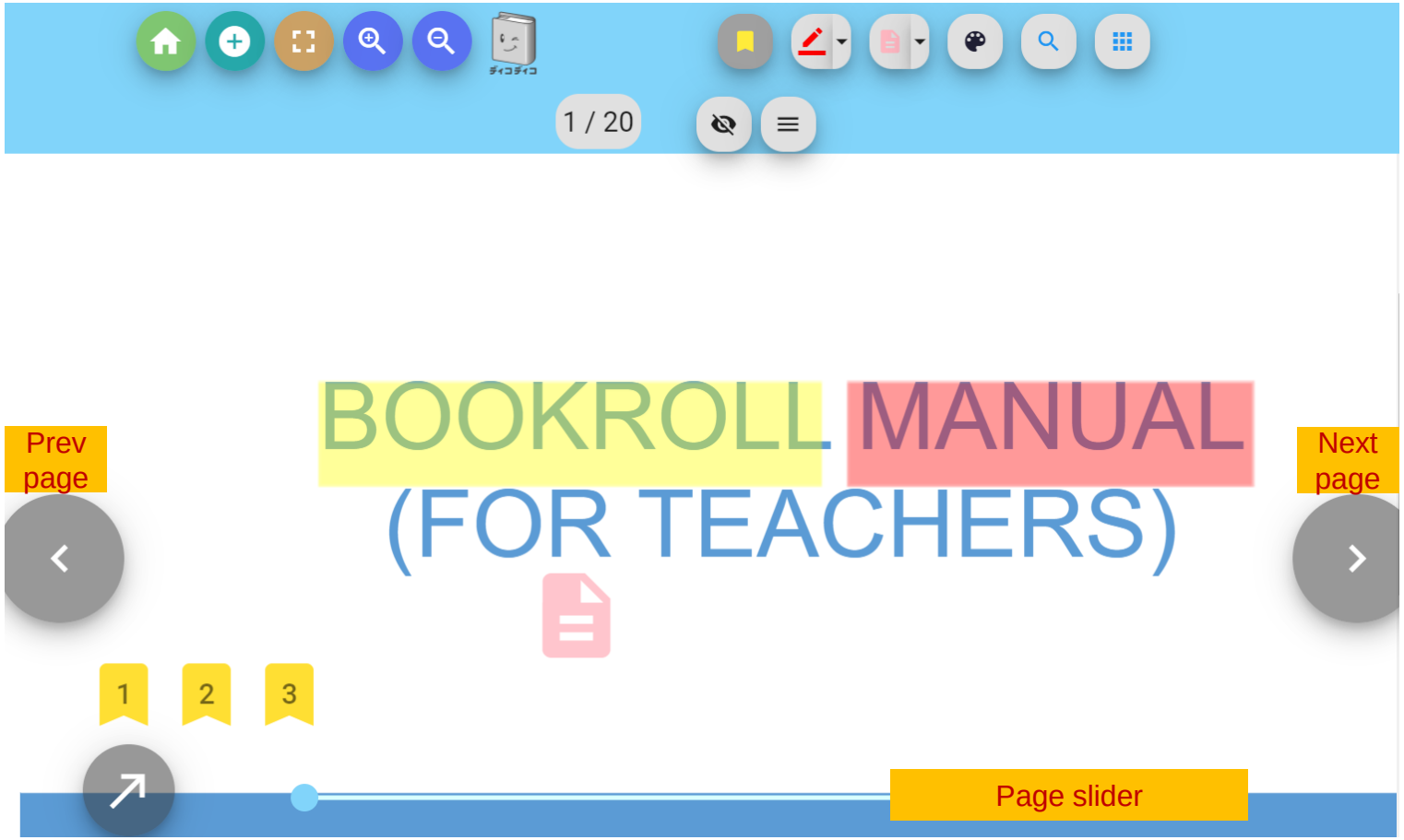
## How to use BookRoll ? (teacher role & student role)

1. Clicking BookRoll activity on Moodle course page -> redirect to BookRoll system

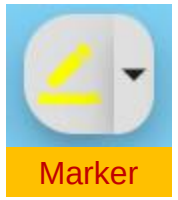
2. Students can read the PDFs under course folder (“2022MS2 Learning Analytics Testing” in this case)



# The BookRoll Interface: an overview



# BookRoll Features: Marker



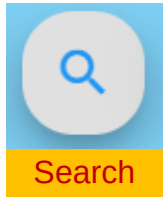

Students can highlight the content which they can **not understand** or find **important**

Yellow Markers(Not understand)

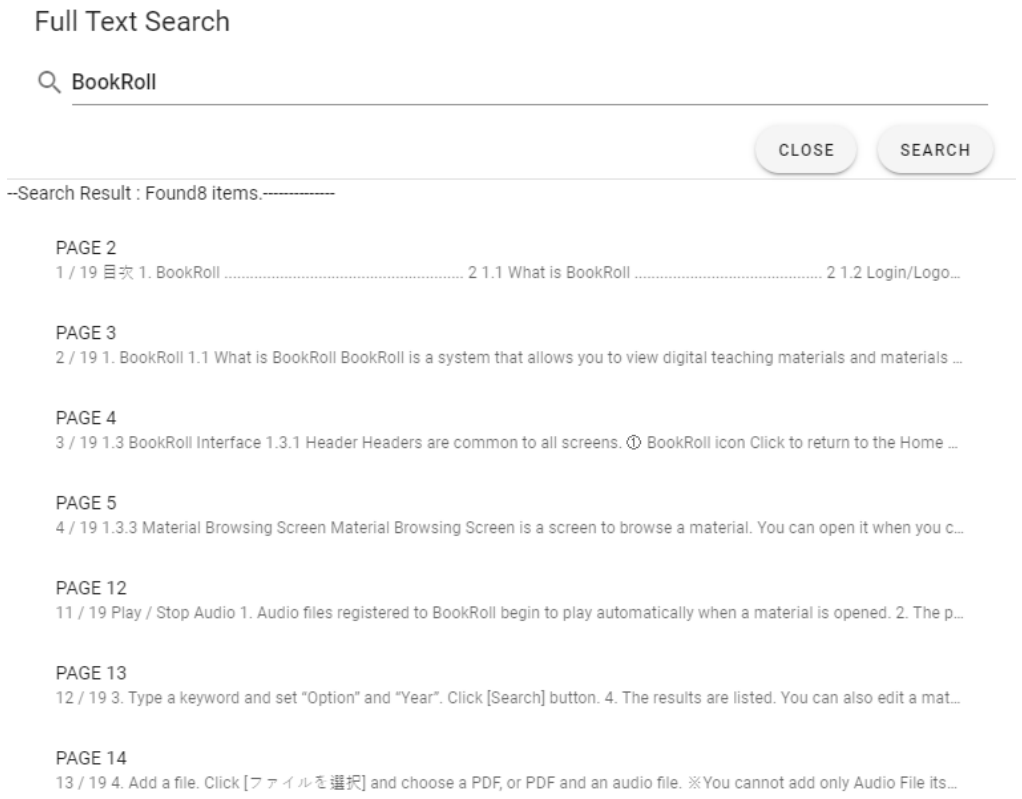
Red Makers(Important)

BOOKROLL MANUAL

# BookRoll Features: Search



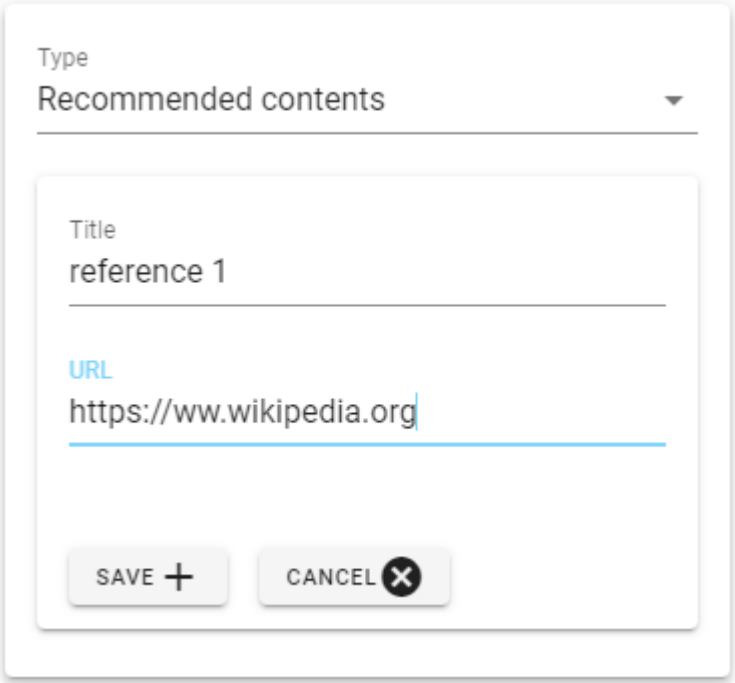

Search with keywords in contents or memo



# BookRoll Features: Recommended contents

Recommended contents
(teacher role)

Side panel to add e-resources related to the page content



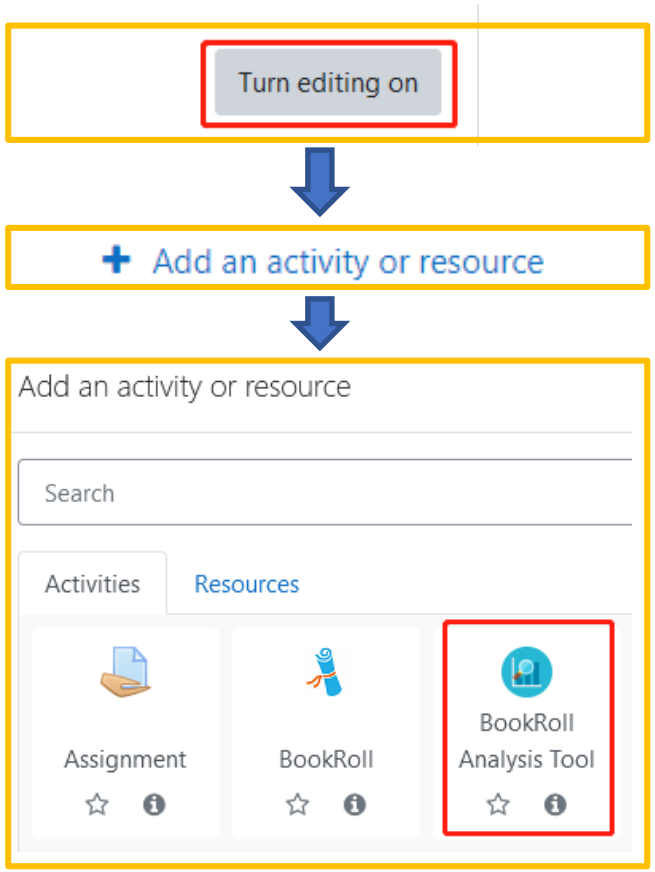
# BookRoll Features: a Summary

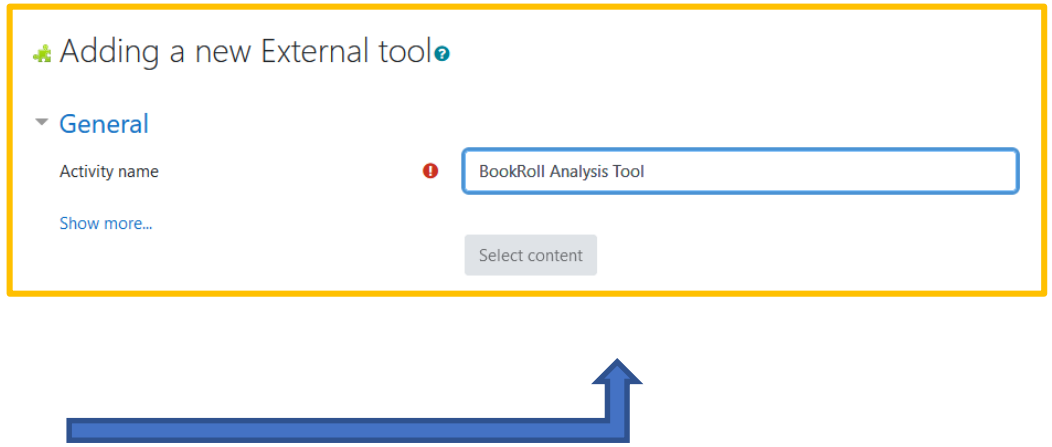
# BookRoll for Analytics

# BookRoll Analysis Tool (Dashboard)

## How to add a new BookRoll Analysis Tool? (teacher role)

1. Go to Moodle course page and click on “Turn editing on”
2. Click on “Add an activity or resource” -> add a new BookRoll Analysis Tool -> input activity name -> save and return to course



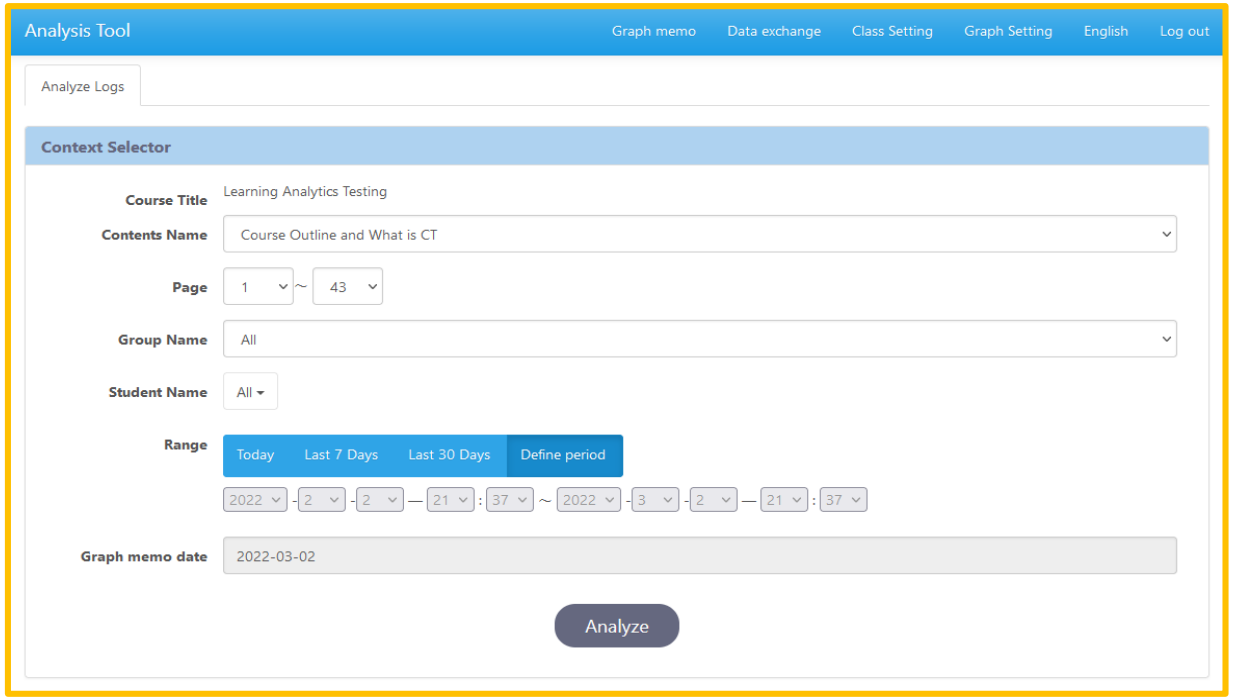



# BookRoll Analysis Tool (Dashboard)

## How to use BookRoll Analysis Tool to conduct learning analytics? (teacher role & student role)

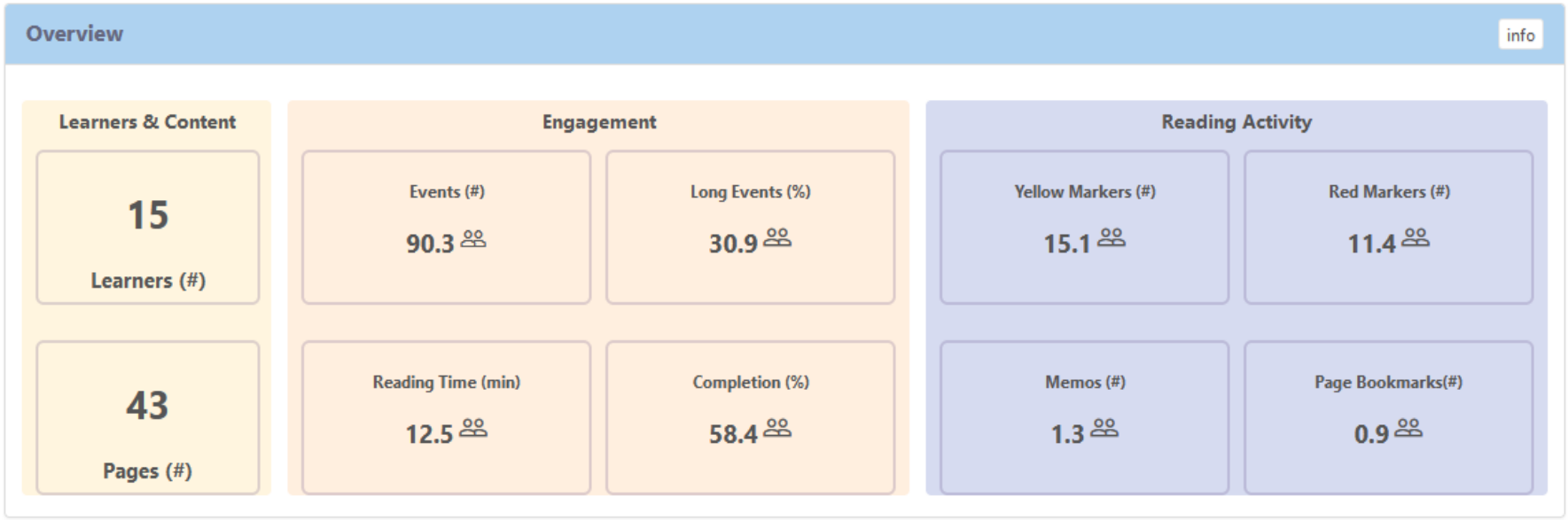
1. Click on the BookRoll activity that was created -> redirect to BookRoll Analysis Tool

2. Choosing a corresponding PDF -> select page -> select group & student(teacher role) -> define period -> clicking button "Analyze"

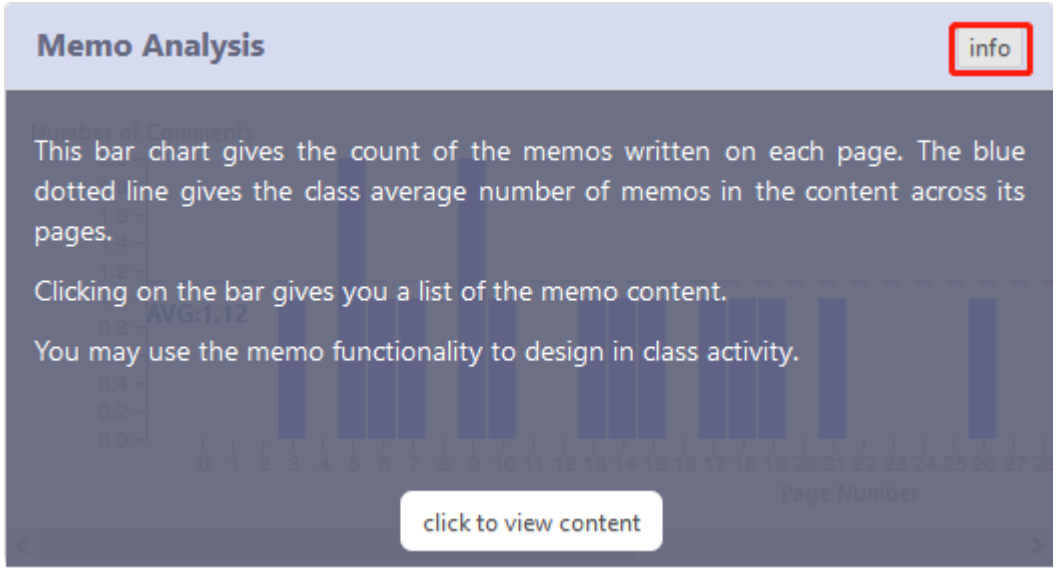


# BookRoll Analysis Tool: Overview Panel provides aggregate statistics

- Check overview statistics about the selected course.
  - Learners and Content
  - Engagement
  - Learning Traces
  - Learning Outcome (under construction)
- Detailed graphs in the dashboard are grouped by color in the overview panel.



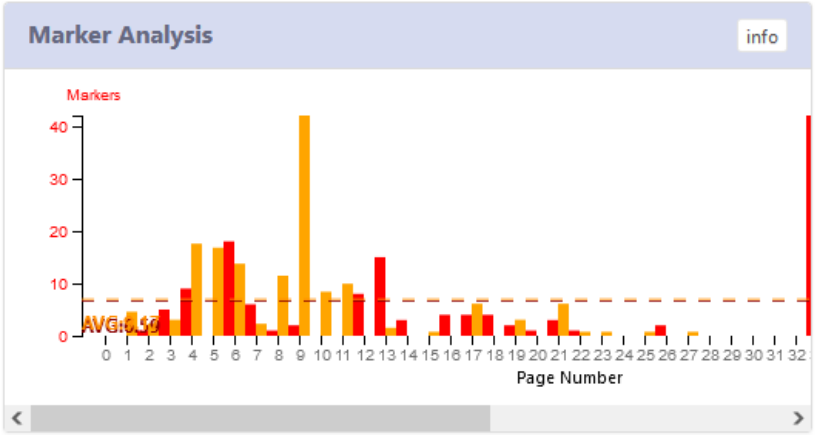
# BookRoll Analysis Tool : Overlay panel for each graphs



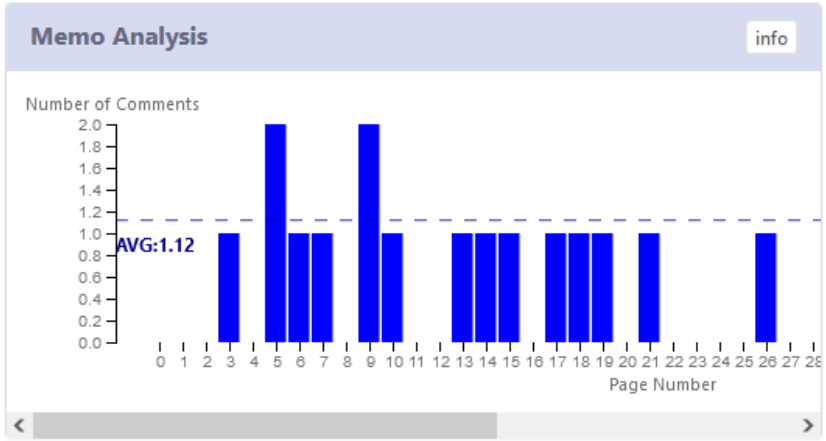

- **Info** explains every graph.
- The overlay provides information about each graph.
- **Click to view content** shows the graphs to users.

# BookRoll Analysis Tool: Marker and Memo Analysis

- This bar chart shows the number of the markers on each page



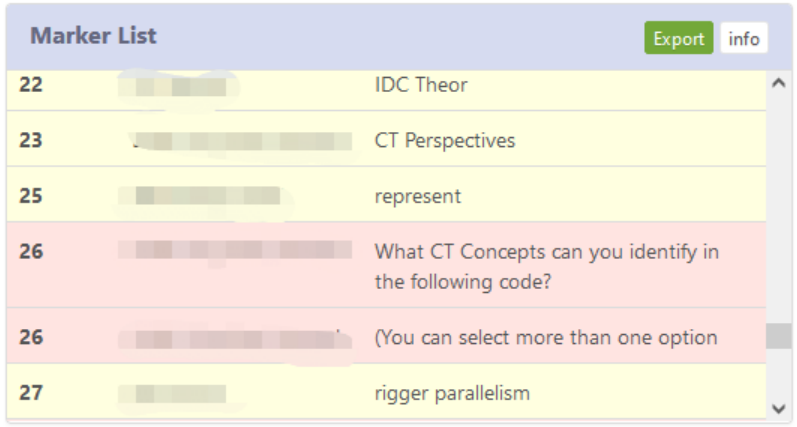

- This bar chart shows the number of the memos on each page.



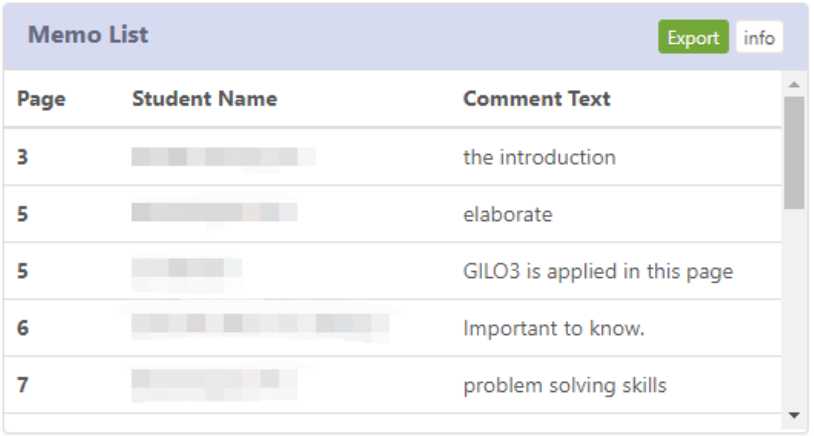

1. In which pages students have highlighted not understand or important markers or inputted memos?
2. How many markers or memos are there on a particular page?
3. What are the contents which are marked as not understand or as important?
4. What are the contents of their memos?

# BookRoll Analysis Tool: Marker and Memo Analysis

- This report gives a list of markers corresponding to each page.



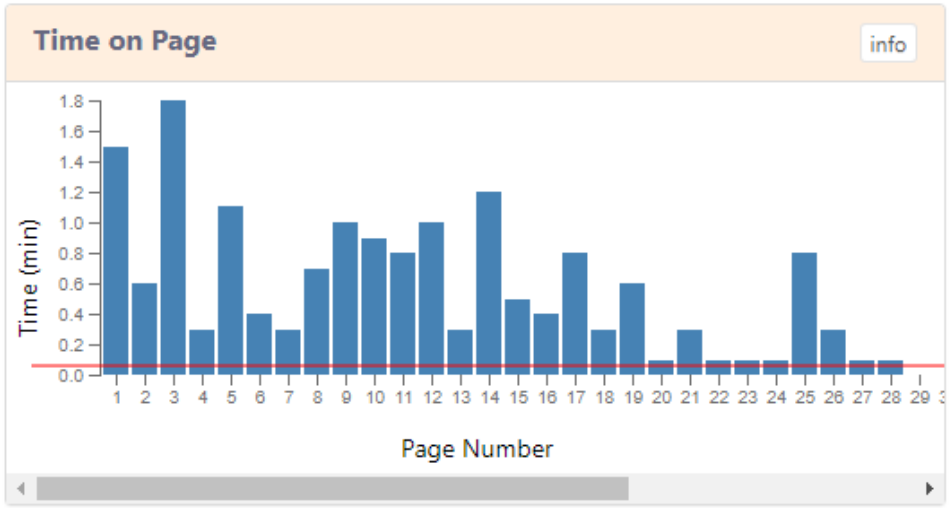

- This report gives a list of memos corresponding to each page




1. Discuss particular page with most not understand markers in next class
2. Check whether particular slide needs update / re-wording.
3. Design a reflection activity on that content marked as important in next class
4. Encourage students who are making meaningful memos

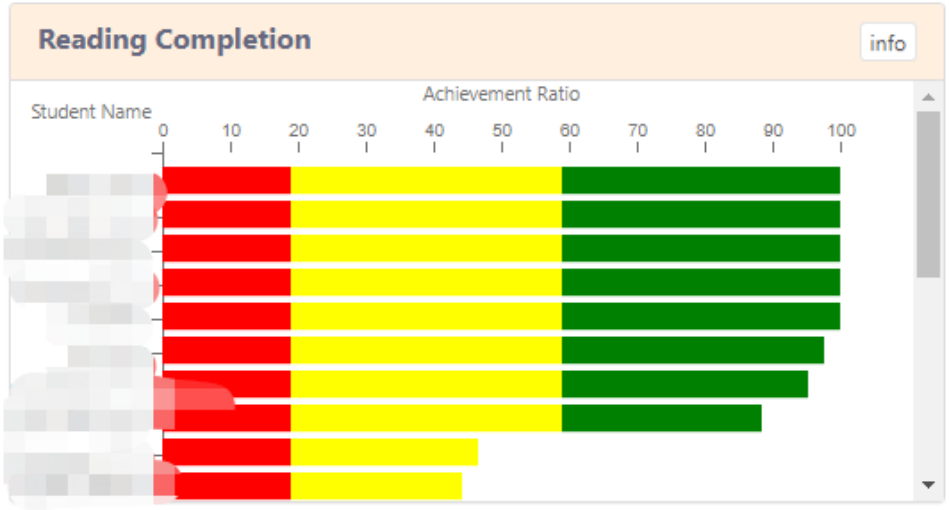
# BookRoll Analysis Tool : Reading Time and Reading Completion reports

- This bar chart indicates the reading time that students spend on each page
- Red line shows the average




1. Which pages have very low reading time?
2. Which pages student are spending more time?

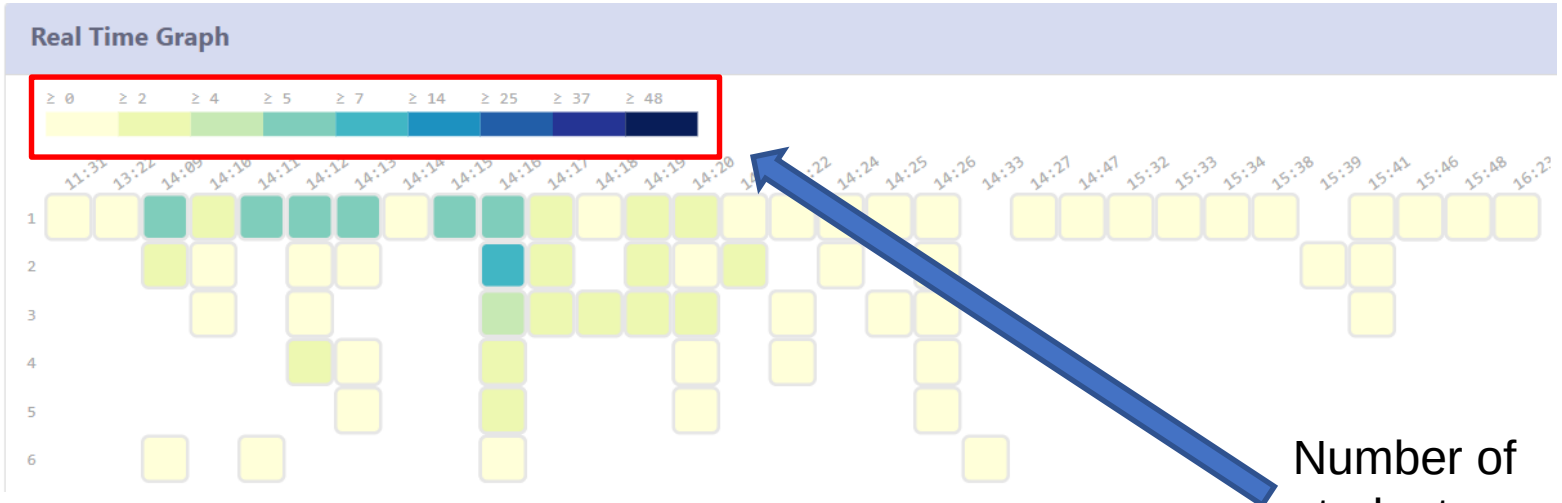
- This bar chart highlights the student-based content achievement ratio.

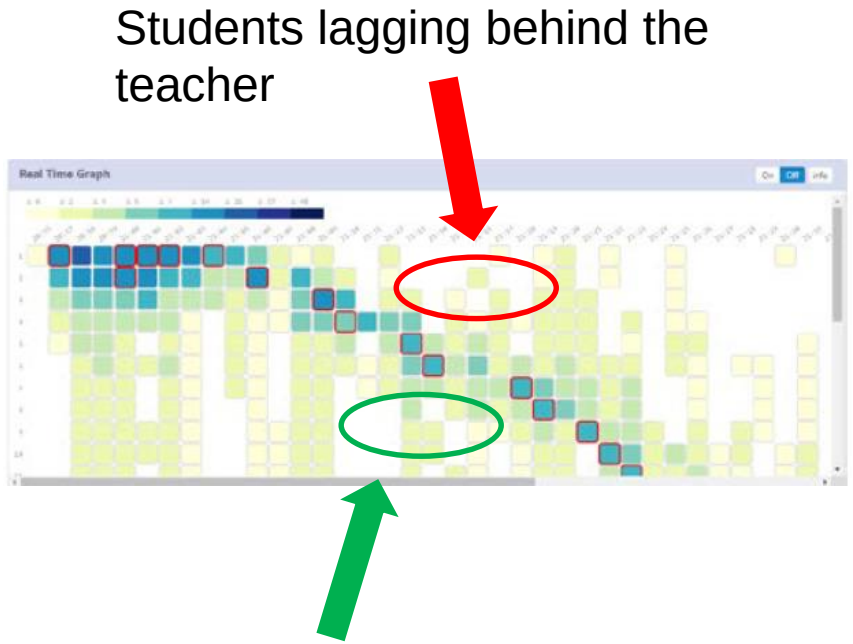



1. The students who have not seen particular segment of the book
2. Set a warm up question from portion which has less completion

# BookRoll Analysis Tool : Real Time Graph

- An overview of which page students are on at different time



# BookRoll Analysis Tool : Real Time Graph

- ▢ indicates where teachers are
- If teachers are reading together with students, teachers can know if students are
  - following his/her pace
  - falling behind
  - or going ahead.