

OneNote for collaborative, electronic research notebooks and all-in-one classroom presentations

Ryan Nelson
Chemistry Department

Acknowledgements

- Matt Côté
- Pete Schlax
- Michael Hanrahan and Scott Tiner
 - Ben Lizzotte, Jeremy Riordan, Keith Horde
 - Kristen Carey, Kai Evenson

For Research: Learning Goals

- Notebook structure
- Sharing options
- Incorporating other file types
- Internal linking
- External linking

For the Classroom: Learning Goals

- Notes as a digital chalkboard
- Powerpoint substitute
- Document camera substitute
- Including material from an external program
- Sharing notes with students
- Screen capture options

Issues with Traditional Notebooks

- Paper notebook storage
- Difficult to share/collaborate
- Easy to lose/destroy
- Accurate time stamps
- Keeping track of and searching for experimental info
- Run out of page space for an experiment
- Including digital information/interactive materials
- Connecting experiments with analysis
- Tracking student usage and leaving comments

OneNote Details

- Free application for Windows, Mac, and all mobile platforms
- Can be used standalone
- Can connect to the cloud (OneDrive)
 - Sharing notebooks -- between devices and collaborators
 - Web-based interface (like Google Apps)

Notebook Format and Linking

Notebook Sharing

Issues in the classroom

- Chalkboard = horizontal → Student notebook = vertical
- No permanence with the chalkboard
- Transitions between multiple technologies
- Using non-standard/licensed apps on classroom desktops

Replacing Classroom Tech

Sharing with Students

Workflow for classroom

Additional OneNote Uses and Mac Stuff

- Homework video keys
- Writing assignment videos and feedback

For Mac:

- iPad Pro and Apple Pencil
- OneNote and Explain Everything

Online options

- Free education account through Microsoft
 - 1 TB storage
 - Free full Office 365
- Free personal account
 - 5 GB Storage
- Pete Schlax and I recommend the personal account, use Google Drive for large files

Archiving

- Online/desktop duality
- Active syncing of notebooks
- Location of notebooks when they are "closed"
- Exporting a notebook to a file