Use of productivity tools:
How to train P-12 students to organize research materials - in methods class we bring in local school librarian and she shows them how she works with teachers who have assigned research to students. They use Noodle Tools (www.noodletools.com paid version). She demos how to do this in stages through the grades.

In general ed tech class for 7-12 majors (all contents) we compare Easy Bib, Bibme, Citation Machine, and the Noodle Express (http://www.noodletools.com/login.php) options. If using APA 6th ed. It sometimes limits use. Also if students are creating annotated bibliographies there are limitations as well. This gives them ideas on how to work with library media personnel to guide students in developing research organizational skill sets.

Also in the organizational tools we explore uses for Diigo www.diigo.com (great way to remember and store sources once they have been located as well as highlight on web pages and create sticky notes all in one). User can access using any connection. Compare it to other tools such as Zotero. Key is to intro idea of storing resources and having the P-12 students create tagging categories 1st to help them later (see Learning &Leading Mar/Apr 2011 article).

Google tools are wonderful. Student teachers have learned how to use Google calendar and share with me so I can easily schedule my visits. http://www.google.com/intl/en/googlecalendar/about.html
Wonder Wheel is a nice tool to help students who may have difficulty thinking of similar/related/topical offshoots to help narrow research topics. However, they also need to be trained to be discerning users as some of the subtopics offered can be very tangential to the original topic.

Sample I made:

www.google.com then key word "immigration
once hits appear on left side click on wonder wheel

For students/groups who need to be organized with tasks/topics can use Knowcase.

http://knowcase.com/

**Assessment:**

Pre-service teachers learn how to use mobile devices/laptops/Student Response Systems for formative/summative feedback. Use in midst of lesson to help flex instruction.

Also tools in Learning Management Systems (LMS) for use - all types of quizzes, puzzles, jeopardy style items.

One issue is content-specific vocab for P-12 students so they practice with sites like Wordia. [Wordia Schools - wordia schools](#)
**Student-centered approaches:**

Student teacher found use of Prezi [http://prezi.com/](http://prezi.com/) great but need to be careful with lots of spinning. User can set up notes for day instead of PPT (thus no need for specific proprietary app) store on web or pay for own desktop version and use with note sheets in class. Helps avoid that PPT *read to them notes syndrome*. Students can create these given parameters to prove they understand concept/idea/event....

Same goes for Wordle [www.wordle.net](http://www.wordle.net) use. Can simply do screen capture and thus no need to save out in the cloud. User creates podcasts for Open House so family members can tour area and learn about what has been happening while waiting for opportunity to speak with teacher.

Use LMS to create own wikipedia for class. Helps P-12 students with research, writing, editing, sharing, collaborating....

GPS and GIS for science, social studies, ELA lit trips....

Google Earth put on overlays for topography, measures for math....

Can use Dabbleboard [http://dabbleboard.com/](http://dabbleboard.com/) as online interactive whiteboard. Sample below is one I made.