

(日)

- so useful and applicable
- unifies, elegant and efficient



- so useful and applicable
- unifies, elegant and efficient
- hard to think of a branch of mathematics where linear algebra is not useful

Any fool can make things bigger, more complex, and more violent. It takes a touch of genius - and a lot of courage - to move in the opposite directions. [Albert Einstein]

Final Research Presentations—Products

- Part 1: Review of only the topics that connect to part 2
 —as if they were studying for a final exam on only those
 specific topics—product is a partial study guide of sorts
- Part 2: Extension of class work
- Part 3: Annotated references [print & online sources, people and pics]
- Part 4: Peer review and self-evaluation
- Exam Day: Tape up all work. Half class presents at once and other half peer review. Groups in different sessions.



https://magicineducation.wordpress.com/2011/03/30/make-your-own-comics-witty-comics/ https://serc.carleton.edu/details/images/15703.html. **Pholo by Carol Ormand.** http://hosted.jalt.org/pansig/2005/HIML/Bayme.htm + = + + = =

Educational Goals at ASU

- Thinking Critically & Creatively research and creative product
- Communicating Effectively writing, speaking and reflecting
- Making Local to Global Connections math applies in many settings, multiple perspectives
- Understanding Responsibilities of Community Membership citations, peer review, actively listening to each others perspectives and presentations...



https://magicineducation.wordpress.com/2011/03/30/make-your-own-comics-witty-comics/ https://serc.carleton.edu/details/images/15703.html. **Photo by Carol Ormand.** http://hosted.jalt.org/pansig/2005/HTML/Bayne.htm * = * * = =

Die lineale Ausdehnungslehre ein neuer Zweig der Mathematik dargestellt und durch Anwendungen auf die übrigen Zweige der Mathematik, wie auch auf die Statik, Mechanik, die Lehre vom Magnetismus und die Krystallonomie erläutert von Hermann Grassmann Lehrer an der Friedrich-Wilhelms-Schule zu Stettin. Mit 1 Tafel. Leipzig, 1844. Verlag von Otto Wigand.

One of the supreme landmarks in the history of the human mind. [George Sarton]