

- Physics
 - <https://ophysics.com/index.html>
 - All simulations are good
 - Drawing Tools
 - Mechanics Drawing for carts, springs, etc
 - Graph maker and multiple choice graph maker
 - Check out “dot to dot” to make a graph by hand
 - [Physics toolbox sensor suite](#)
 - Uses the sensors in your phone for data collection
- Online Textbooks
 - [CK12](#)
 - Has online textbooks that you can steal, adjust, change, and make your own for free
 - [OpenStax](#)
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- Book recommendations (student and general public level)
 - The Theory of Almost Everything by Robert Oerter
 - How to Teach Quantum Physics to your Dog by Orzel
 - Alice in Quantumland by Gilmore
 - Anything by Mary Roach (Packing for Mars, Stiff, Boink...)
 - A brief history of nearly everything by Bryson
 - Randall Munroe books: What If?, How To, Thing Explainer
- Graphing Resources
 - [Graph of the Week](#)- Good to give to kids as a starter to practice graphing
 - [Spurious Correlations](#)- Awesome correlations to discuss correlation vs cause/effect
 - [Shodor.org](#)- lots of cool stuff for graphing
- Earth Cameras
 - [Earthcam](#)- Cameras around the Earth
 - [511Iowa](#)- Iowa traffic cams
- Curriculum Packages/ Activities
 - [Concord Consortium](#)
 - [OpenSciEd](#) Great NGSS units for free middle school curriculum (high school coming soon)
 - [NGSS Storylines](#)
 - [Bettendorf's Cell Phone unit](#)
 - [LIKE Science](#)
 - Chris's youtube videos- Lots of elementary stuff, but there is a playlist for Cell Phone Unit
- Phenomena Websites
 - [Iowa PBS Phenomena](#)
 - [NGSS Phenomena](#)
 - [Wonder of Science](#)

- Earth Science
 - [Tons of Earth Science Resources](#) from UNI: (Earth Science Tab)
- [Eratosthenes Circumference experiment](#)
- [QuestionWell - Question formation website](#)
- [Positive Physics](#)
- [Phet Simulations](#)