

Resources to Support At-Home Learning in Science

General Ideas on At-Home Learning

- [Supporting Equitable At-Home Learning in Science](#) - overview philosophy on supporting online learning, comes from the Council of State Science Supervisors ([CSSS](#)). They also [have a broad range of resources](#) for planning and considering effective virtual learning, including in other languages.
- [Self-Care Resources](#) - for educators, from the CSSS
- [Seven Guiding Principles for At-Home Learning](#) - article for parents from Edutopia
- [Return-to-School Considerations for Science](#) - DPI one-page resource created by Kevin

Current At-Home Learning Resources in Science for Parents and Educators

- [List of At-Home Science Activities](#) - linked to Wisconsin standards at each grade band with optional supplemental resources noted; created by Kevin Anderson (DPI)
- [Science Talk](#) - engaging in science discussions at home, resource from CSSS
- [Science Notebooking](#) - working like scientists, resource from CSSS
- [Using Phenomena in At-Home Learning](#) - resource document from CSSS
- [Investigations beyond the Classroom](#) - a guide for teachers to support students in inquiry-based science at home
- [“How I’m Teaching Remotely”](#) and [“Moving Your Class Online”](#) - videos - Paul Andersen
- [Curated List of Simulations and Virtual Labs](#) - lots of great links and ideas
- [Utah Education Network](#) - a nice list of science learning activities by grade band
- [Home Lab Safety Considerations](#) - eye protection is a good plan
- [OpenSciEd Resources](#) - resources for teachers on effective distance science learning; includes creating norms, supporting discourse, working with phenomena, and more.

- [Madison School District Learning Resources](#) - includes quality K-2 and 3-5 science ideas

General Online Science Learning Resources

- [PBS Learning Media](#) - (elem - high school) has lessons and activities linked to their great videos and media; they also have a relatively new set of interactive materials [about the universe](#) by grade
- [Environmental Education for Kids](#) - (elementary) Wisconsin project with environmental activities
- [San Diego County Learning at Home](#) - (elementary) list of home-based activity ideas
- [Sample Learning Menu](#) - (preschool to 8th) list of activities
- [Mystery Science](#) - (elementary) mini-lessons and videos
- [BSCS Medical Mystery](#) - (middle school) interactive series of lessons on human body
- [PHeT simulations](#) - (middle to high school) students can manipulate variables to explore science phenomena
- [Field Day Lab](#) - (middle to high school) interactive science learning, simulations, and games from UW-Madison
- [HHMI BioInteractive](#) - (middle to high school) free lessons, scientist at work video, simulations, datapoints
- [National Science Teaching Association](#) - (K-12) lessons, webinars, etc., largely for teachers
- [Going 3D with GRC](#) - (K-12) range of teacher created lessons and units
- [Concord Consortium](#) - (middle to high school) student can manipulate variables to explore science phenomena
- [Student Career Info](#) - (middle to high school) digital job shadows and career videos
- [Virtual field trips](#) - (middle to high school) links to over 30 opportunities
- [CODAP](#) - (high school) online data exploration
- [Vernier Experiments and Sample Data Library](#) - (high school) physics related data and investigations
- [Gizmos](#) - (middle to high school) students can manipulate variables to explore science (and math) phenomena
- [The Physics Classroom](#) - (high school) physics simulations
- [Flinn at Home Laboratory Series](#) - (high school) chemistry videos and questions