

One of UEN's science resource pages lists these "science fairs and competitions":

- <https://slvsef.org> Salt Lake Valley Science and Engineering Fair
- <https://student.societyforscience.org/intel-isef> Intel International Science and Engineering Fair
- <http://www.usfirst.org> US FIRST: for inspiration and recognition of science and technology (Lego League, Robotics Competition, tech challenge)

Many digital videos are available for download from **UEN's eMedia library**. These include state purchased media, PBS series and others. Search and browsable by topic, subject, grade, media type. Access to the full library is limited to those in public school buildings or with the annually updated password for teachers/students to access from home.

### **Core-related and state resource sites:**

[www.schools.utah.gov/curr/science](http://www.schools.utah.gov/curr/science)

<http://www.uen.org/k12educator/uenresources.php?cat=Science>

<http://www.uen.org/k12educator/uenresources.php?cat=Mathematics>

[Are these the best entry-point links, or maybe a more general UEN home page for pre-K to 12, or maybe the more specific core curriculum home page (browse from all curriculum areas/grades to find core documents and associated lesson plans/web links).]

[www.uen.org/core/science](http://www.uen.org/core/science)

- See official core curriculum documents
- Search or browse by grade level standard for lesson plans and web links
- View info on alignment of standards to specific textbook sections

[lists.uen.org/mailman/listinfo/science](http://lists.uen.org/mailman/listinfo/science)

- Subscribe to USOE science teacher email list

<http://www.pbslearningmedia.org>

- PBS programs and resources specifically for teachers including lesson ideas, lesson plans and materials to accompany programs. Searchable by subject and grade.

### **OER Resources including online textbooks:**

[www.uen.org/oer](http://www.uen.org/oer)

- Online textbooks
- Math textbook links organized by:

- 7<sup>th</sup> grade and 8<sup>th</sup> grade which both have these categories: student workbook, parent manual and foundation textbook
- Math 1, 2 and 3, each of which have these categories: student edition, teacher notes, honors student, honors teacher notes
- [might link to the OER page from parent and student pages]
- The science textbooks are PDF docs really designed for printing, but available for each grade 3 – 8 and chemistry, biology, physics and earth science.

[www.hippocampus.org/?user=myUEN](http://www.hippocampus.org/?user=myUEN)

- Videos, and links to other sites such as NROC and Khan Academy for learning games, videos, interactive lessons and multimedia resources

[www.oercommons.org](http://www.oercommons.org)

- Variety of materials for all subjects and grades, but fairly easy to search and get to interactive online tools and other multimedia.

### **Specific topic/project sites:**

[www.uen.org/climate](http://www.uen.org/climate)

- Climate Science curriculum support videos (11 animated 2-4 minute concept explanations), lessons and background for teachers developed with national partners and vetted by USOE specialists

[extension.usu.edu/waterquality/htm/educator-resources](http://extension.usu.edu/waterquality/htm/educator-resources)

- Easy to access materials including lab kits, training opportunities, lesson plans and “kids’ pages”.

[www.uen.org/utahnationalparks/educator.shtml](http://www.uen.org/utahnationalparks/educator.shtml)

- Specific web resources, state approved lesson plans related to Utah’s 7 national parks.

[Sportsnscience.utah.edu](http://Sportsnscience.utah.edu)

- videos, posters and articles relating science to sports

[www.uen.org/tv/cheese](http://www.uen.org/tv/cheese)

- Cheese science – TV program +short Utah scientist interviews (5 min) including several WSU faculty +lesson and activity ideas around cheese

<http://www.uen.org/lucid/index.shtml>

- Very cool software for making charts or multimedia programs. Lucid Chart and Lucid Press - Licensed/paid for by the state for use in Utah classrooms.

### **Student activity, general public interest sites:**

<http://www.pbslearningmedia.org/student/>

- Student support site with science and math collections.

[www.uen.org/7-12interactives/science.shtml](http://www.uen.org/7-12interactives/science.shtml)

- Online interactives for students by subject/grade band
- Similar available for math – .../math.shtml

<http://www.uen.org/3-6interactives/>

- Then choose math, science, technology or brain teasers (or other curriculum area)

[www.popsci.com/archives](http://www.popsci.com/archives)

- Free archived back issues of popular science magazine

Earthsky.org

- “Updates on your cosmos and world” Science news for the general public with photos, videos and explanatory animations/drawings.

Exploreatahscience.org

- From KCPW, science news from around Utah; especially interesting because they have education news fully in Spanish

Sciencenetlinks.com

- From AAAS sections for teachers and students.

[www.sciencefriday.com](http://www.sciencefriday.com) home page or

<http://www.sciencefriday.com/video/index.html#page/full-width-list/1> for index of videos on newsy science topics.

<http://www.uen.org/ueninfo/museums.shtml>

- UEN has collected a comprehensive list of museums in Utah. Many are not science related, but we could browse and select those relevant to Northern Utah and then make our own page with contact info/links. For example, Hill Aerospace museum, BYU Museum of Paleontology, the Dinosaur museum, Monte L. Bean Museum (vascular and non vascular plants invertebrate and vertebrate animals – who knew?), Museum of Ancient Life, Red Butte Garden, Tracy Aviary, The Leonardo, etc.

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## TV SHOWS

(Some teachers might want to use these for extra credit, or general public would browse the list if they are science buffs or looking for quality TV to watch with the family.)

- UEN-TV channel 9.1
  - Cheese Science – Mondays, 8:00 pm

- (SciTech)now – Monday, 8:30 pm
- Scifi Friday – Fridays, 9:00 pm
- We could also get a list of PBS science-related broadcasts on KUED; also, national PBS streams all their programs online