HTML in Your Classroom
Coding Student Webpages

David Anderson
davidanderson1978@gmail.com
@MrASci
Youth Code Jam fosters an interest in technology by introducing upper elementary through high school students to computer science.

youthcodejam.org
Youth Code Jam

- Fall Code Jam and Spring Low Sensory Jam
- Teacher Professional Development
- High School Mentorship Programs
- Coding Summer Camps
- Girls in STEM
Why Code in the Classroom?

- Easy to apply to science TEKS
- Develops critical thinking and problem solving skills.
- Gives students a creative outlet with science curriculum.

CS drives innovation throughout the World economy, but it remains marginalized throughout K-12 education.

code.org
Coding Science Webpages

Science Webpage Lesson Plan:

- Students are introduced to HTML, the language of webpage content
- Teachers can use lesson with any science TEKS
- Easy to differentiate
  * GT & ASD
- Evidence for T-TESS Planning Dimensions
  1.1 (lesson planning w/ tech) & 1.4 (higher order thinking)
Step 1: Learn HTML w/ Khan Academy
Step 2: Build a Science Website

The Art of Convection!

- **Air Pressure**: The force exerted by the atmosphere on Earth’s surface by the weight of the air above the surface.
- **Convection**: Heat transfer caused by the rising of hotter, less dense fluids and the falling of cooler, more dense fluids.

Weather Vocab:
- Air Pressure: The force exerted by the atmosphere on Earth’s surface by the weight of the air above the surface.
- Convection: Heat transfer caused by the rising of hotter, less dense fluids and the falling of cooler, more dense fluids.
in both a direct and indirect fashion. An example of competition is two male bucks fighting for land. Both are limited to the land because of each other and a fight decides who gets the land. The compete to get their way to survive.

![Deer](http://upload.wikimedia.org/wikipedia/commons/a/a1/Hirschkampf.jpg)

### Animal Relationship Videos

[a](http://app.discoveryeducation.com/player/view/assetGuid/80AD68E0-ABFD-4390-A6DC-6AC32238FEC0) View more Relationships at DiscoveryEducation.com

### Cited Sources

- [http://www.factmonster.com/ipka/A0776202.html](http://www.factmonster.com/ipka/A0776202.html)
Weather Vocab :) 

**Weather**: day-to-day state of atmosphere  
**Weather Map**: map of weather conditions  
**High Pressure Air Mass**: dry air/ fair weather  
**Low Pressure Air Mass**: air with lots of water vapor/ stormy weather  
**Thermal Energy**: movement of particles faster=warmer  
**Atmosphere**: mass of air surrounding the Earth  
**Warm Front**: advancing warm air mass  
**Cold Front**: advancing cold air mass  
**Wind**: natural air movement / high to low  
**Air Pressure**: force exerted by atmosphere  
**Surface Ocean Current**: caused by steady winds over ocean  
**Deep Ocean Currents**: caused by density differences in ocean  
**Convection**: heat transfer hot rises/ cold falls  
**Hurricane**: swirling storm over warm oceans
Try out the lesson: https://tinyurl.com/HTMLYCJ

Slides https://tinyurl.com/ycfjfdky