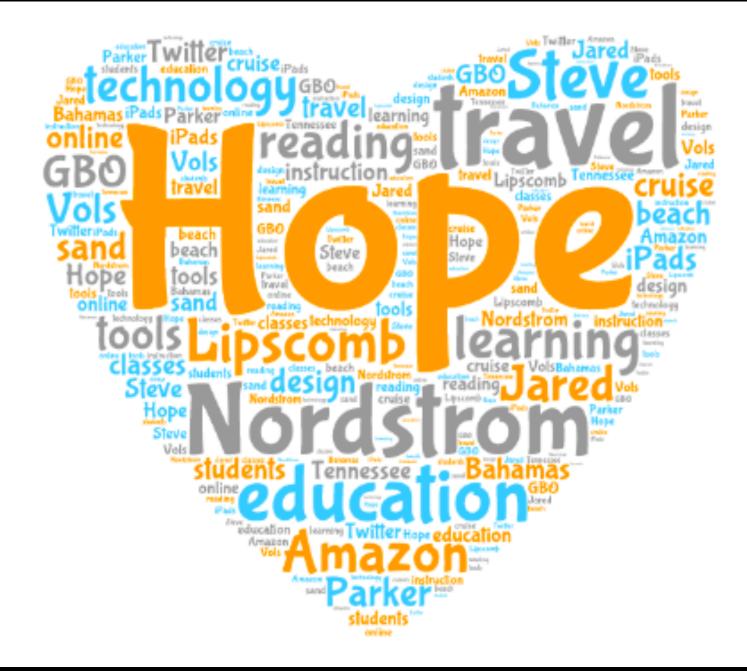


### Digital Tools for Visual Literacy

#### Dr. Hope Nordstrom

CC Photo by Rob Unreall - Creative Commons Attribution-ShareAlike License https://www.flickr.com/photos/33881710@N06

### @DrHope4Tech



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# Learning Targets

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#### "I won't let arthritis pain keep me from teaching."

#### VIOXX PROVIDES 24-HOUR RELIEF OF ARTHRITIS PAIN AND STIFFNESS

FIND OUT IF <u>VIOXX</u> CAN MAKE A DIFFERENCE IN YOUR LIFE

The less pain you feel, the more everyday victories you can achieve. And VIOXX may help. VIOXX is a prescription medicine for the relief of arthritis pain, stiffness, and inflammation.



#### What are the possible side effects of VIOXX?

Serious but rare side effects that have been reported in patients taking VIOXX and/or related medicines have included:

- Serious stomach problems, such as stomach and intestinal bleeding, can occur with or without warning symptoms. These problems, if severe, could lead to hospitalization or death. Although this happens rarely, you should watch for signs that you may have this serious side effect and tell your doctor right away.
- Heart attacks and similar serious events have been reported in patients taking VIOXX.
- Serious allergic reactions including swelling of the face, lips, tongue, and/or throat which may cause difficulty breathing or swallowing and wheezing occur rarely but may require treatment right away. Severe skin reactions have also been reported.
- Serious kidney problems occur rarely, including acute kidney failure and worsening of chronic kidney failure.
- Severe liver problems, including hepatitis, jaundice and liver failure, occur rarely in patients taking NSAIDs, including VIOXX. Tell your doctor if you develop symptoms of liver problems. These include nausea, tiredness, itching, tenderness in the right upper abdomen, and flu-like symptoms.

In addition, the following side effects have been reported: anxiety, blurred vision, colitis, confusion, constipation, decreased levels of sodium in the blood, depression, fluid in the lungs, hair loss, hallucinations, increased levels of potassium in the blood, insomnia, low blood cell counts, menstrual disorder, palpitations, pancreatitis, ringing in the ears, severe increase in blood pressure, tingling sensation, unusual headache with stiff neck (aseptic meningitis), vertigo, worsening of epilepsy.

### What?

Photo by Valentina\_A - Creative Commons Attribution-NonCommercial-ShareAlike License https://www.flickr.com/photos/8418112@N04



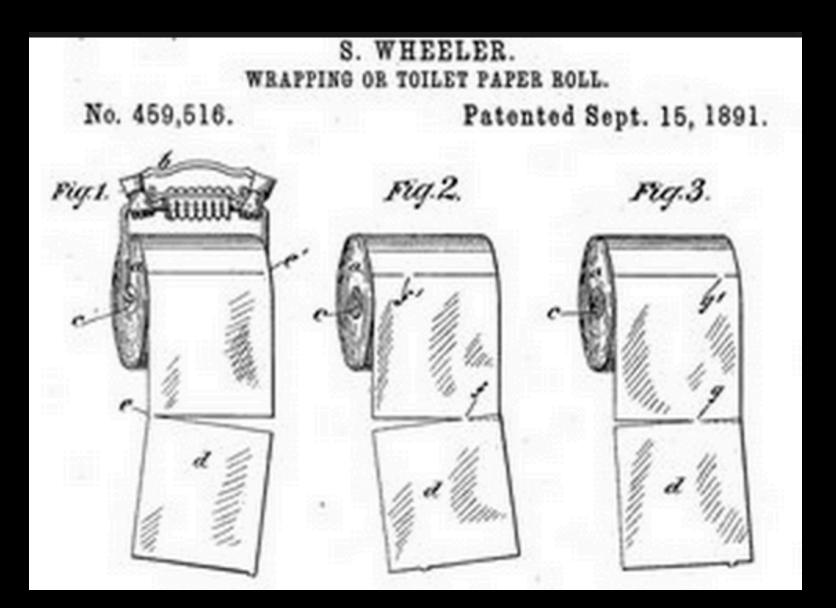


#### Multimedia Learning-Mayer







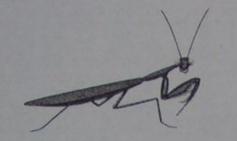




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Photo by Neal. - Creative Commons Attribution License https://www.flickr.com/photos/31878512@N0



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#### Praying Mantis Life Cycle

Name

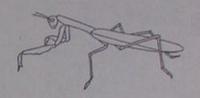




Photo by Barrett.Discovery - Creative Commons Attribution License https://www.flickr.com/photos/32561453@N05



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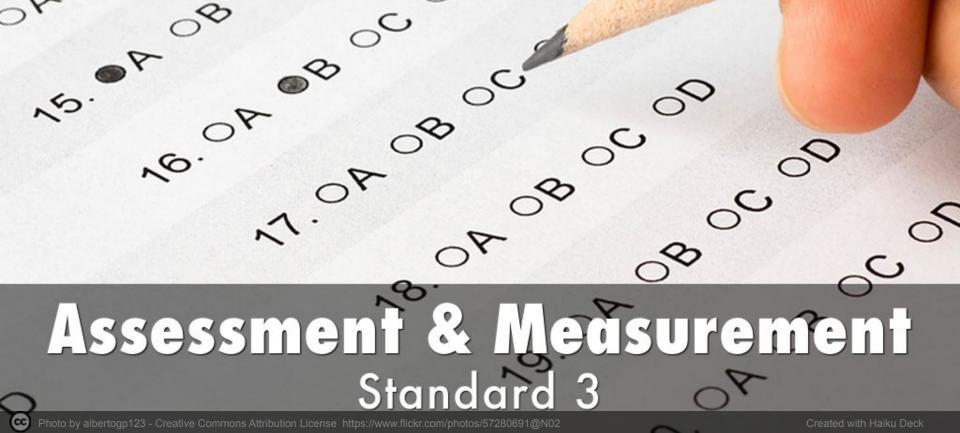
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### Learning Objectives

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### Instructional Materials Standard 4

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#### Learner Interaction & Engagement Standard 5

Photo by Cayusa - Creative Commons Attribution-NonCommercial License https://www.flickr.com/photos/17731548@N00

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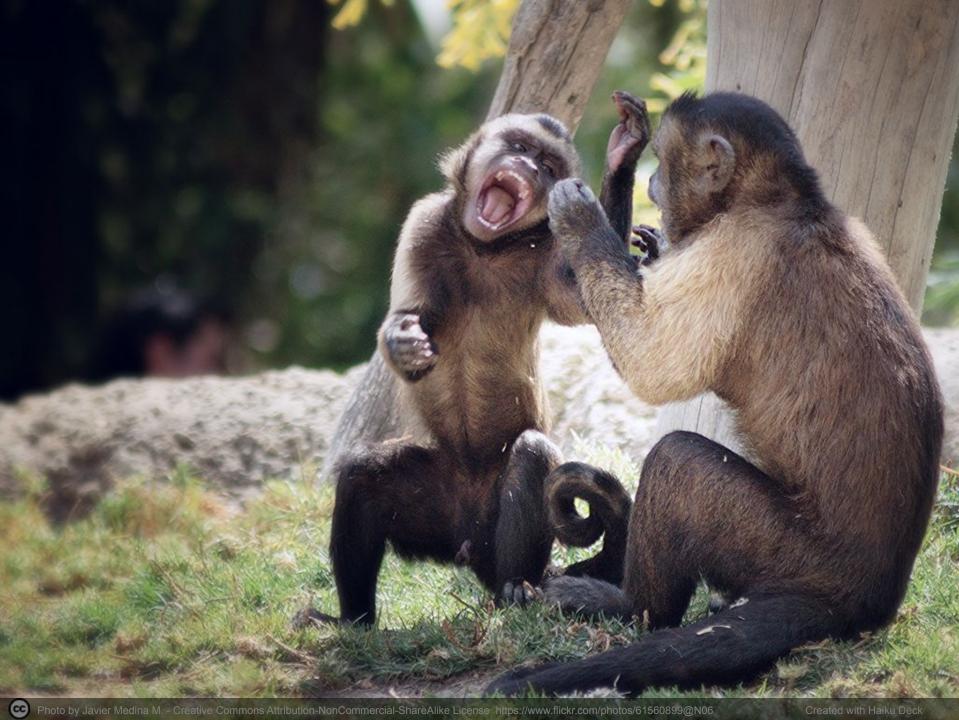
### Course Technology Standard 6

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# Digital Tools

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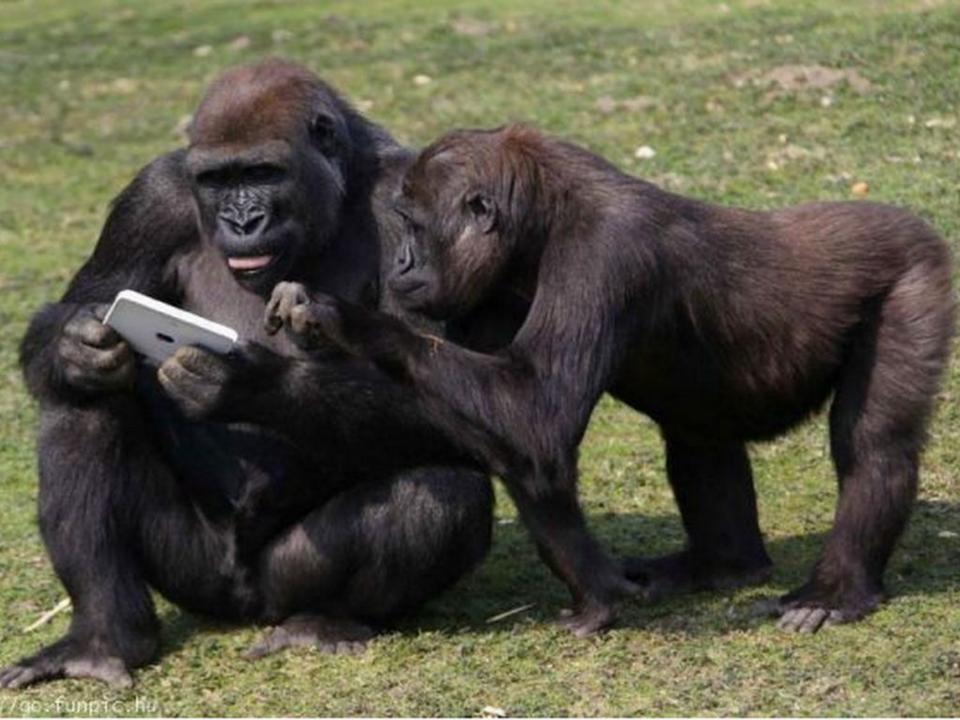
















# Earl of Sandwich

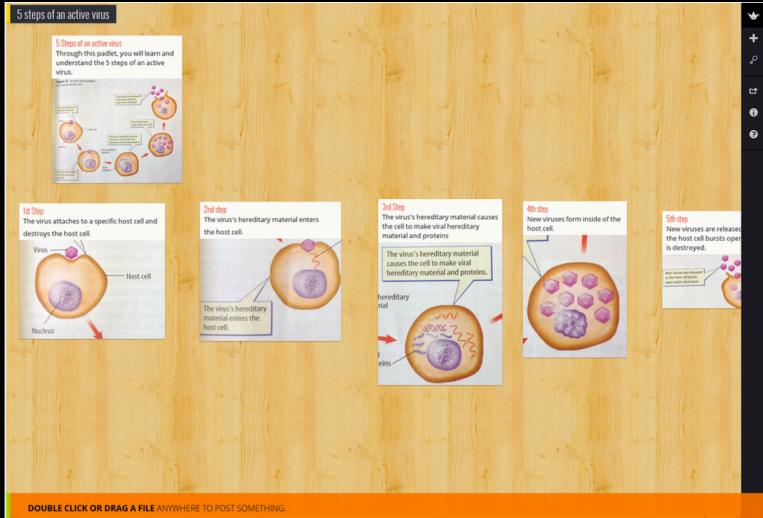
- John Montagu was a British statesman living in the United Kingdom
- Loved playing cards
- Loved eating while playing cards especially strips of beef
  - To prevent cards from getting greasy, decided to put the beef between two pieces of bread
  - John Montagu was the Fourth Earl of Sandwich







# Visual Thinking Tools



### Inspiration Maps, Padlet, Pic Collage

#### Interphase

The cell grows to its full size and copies its DNA. The centrioles are also formed. The cell is ready for mitosis.

### KEY

3

Button= Nucleus and nuclear envelope

String= Cell Membrane

Pipe Cleaners= Chromosomes and Centrioles

Brown Beads= Centromeres

Color Beads= Spindle Fibers

#### Prophase

The nucleus begins to break down and the chromosomes condense. Spindle fibers begin to appear on opposite sides of the cell



rodlike shape and the nuclear envelope begins to reform.

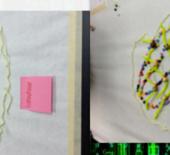


#### Metaphase

Nuclear envelope is now gone and the chromosomes line up in the middle of the cell with a centromere attaching to them in the middle.

#### Anaphase

The centromere splits pulling the chromatids apart. They are pulled to opposite sides of the cell by the spindle fibers.



born. They have half of the amount of organelles as the parent. Reproduction begins once again.



### in our memories long her text her text

## of information transmitted to the brain is visual





1/10th of a second: The amount of time it takes the brain to get the sense of a visual scene



The number of visual messages our brain can process in





Photosynthesis occurs in the chloroplasts

Next phase in

photosynthesi

### **Photosynthesis:**

The process where the plant gets its energy.

Dark reaction

Calvin Cycle

NADP+ is a product

### Parts of a leaf

Chlorophyll- green is being absorbed, all the other colors are being reflected. Mesophyll- the inner tissue of a cell Stomata- little pores at the bottom of the leaf that let certain things in and out. Thylakoids- flattened sacs, if they pile up they are called a grana. Guard cells- surround the stomata, becomes larger and small. Transpiration- passage of air through small tubes. Light reactionoccurs in the first reaction of photosynthesis . Sunlight is required.

NADP+ is a carrier

Carbon fixation- the plants turn carbon dioxide into glucose.

Heterotroph eats the autotroph

Heterotrophrealizes on others for food.

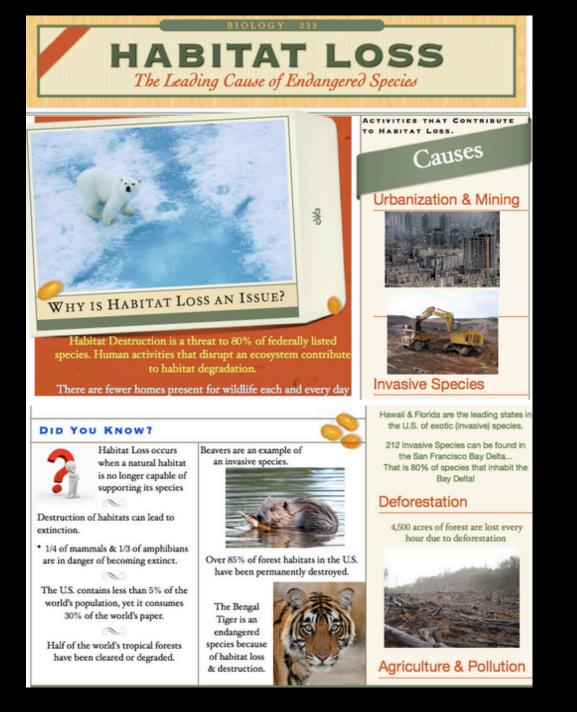
Autotroph- makes its own food

absorbs sunligh energy for photosynthesis

Cours in Light intensity

Occurs in

Wave length



Bruso, Jessica. "Healthy Eating." SFGate.com. The San Francisco Chronicle, n.d. Web. 04 Nov. 2013.

## Healthy vs Unhealthy Eating | Eating

2 million Amer more

Americans live 20 miles or more from a supermarket

2.7 million+ people die per year due to not getting enough fresh fruits and vegetables

40%

increased inflation price of fresh produce in recent decades

27 minutes the average time an American spends cooking daily

**Effects** 

Healthy Body healthy food provides a substantial amount of essential nutrients

Happier Life

amino acids and vitamin B, found in fruits and vegetables trigger the serotonin which is the body's "feel good" neurotransmitter



fast food restaurants for every supermarket



2.6 million deaths per year due to obesity-related illnesses



40% of cancers are due, in part, to an unhealthy diet

Polydimethylsiloxane

an anti-foaming agent found in McDonald's Chicken McNuggets that is also found in Silly Putty

**Effects** 

### Diabetes

25.8 million Americans suffer from diabetes

### Depression

consuming trans-fats, saturated fats, and processed foods increases the chances of depression by 58%

"Is Junk Food Really Cheaper," The New York Times. The New York Times, 24 Sept. 2011. Web. 16 Oct. 2013.

Food Icons. N.d. Photograph. Iconfinder. Web.

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### 'isual Literacy



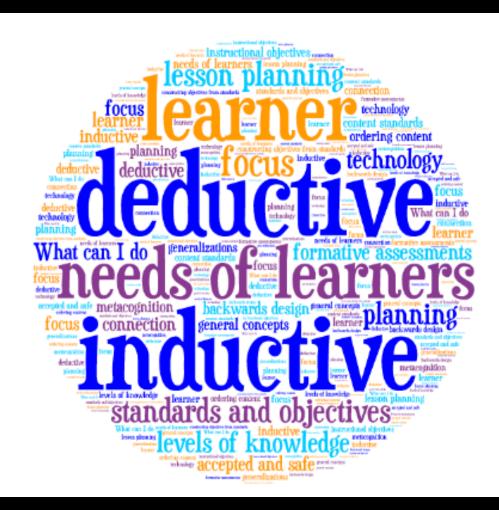
Ø Visit www.facebook.com ① A month ago ♥ One touch on the image



### Animoto, PowToon, Sock Puppets, Tellagami

# convections contaboratio nology response books **close**Technology

# Word Clouds



# Social Media



### A Thousand Words: Using Digital Tools to Enhance Visual Literacy



http://digitaltools4visualliteracy.weebly.com/

Dr. Hope Nordstrom hope.nordstrom@lipscomb.edu

## Digital Tools for Visual Literacy

### Dr. Hope Nordstrom

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