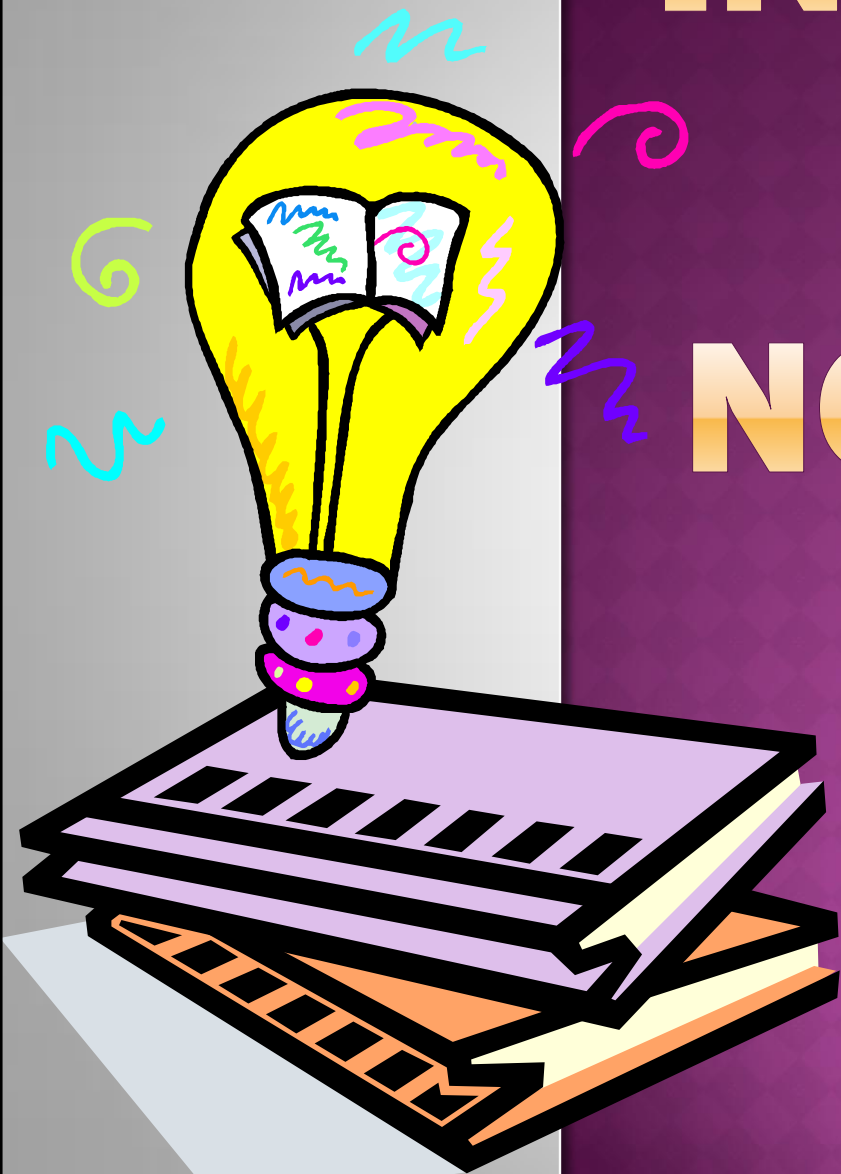


INTERACTIVE SCIENCE NOTEBOOKS (ISNs)

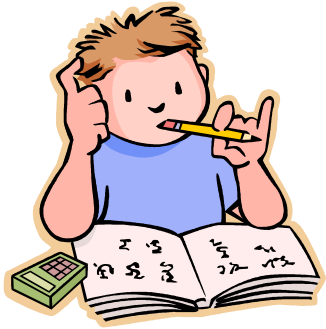


*2013 PreK-8 Science Update Conference
Western Illinois University, Macomb, IL*

T. Tomm & C. McDaniel

<http://sciencespot.net/>

Have you ever heard ... ?



**I can't find my ...
notes, homework, quizzes ...**

*I can't remember what
we did in class yesterday.*

I'm sure it's in ...
my locker? my book bag? my room?

*I was absent last week,
did I miss anything?*



No worries ...

Turn those frowns upside down ...

**Interactive Science Notebooks
are here to save the day!**



What Is An Interactive Science Notebook?

- ✓ An interactive science notebook (ISN) is a personalized **SCIENCE BOOK**.
- ✓ It is a portfolio of each student's work in **ONE** spot that is brought to class **EVERY DAY**. This is a great resource for **STUDYING** for quizzes & tests.
- ✓ It is a great **ORGANIZATIONAL** tool that gives students permission to be **COLORFUL** and **CREATIVE** to show me what they know or have learned.
- ✓ It allows students to be like a **REAL SCIENTIST** by asking **QUESTIONS**, **RECORDING** what they observe, and **SHARING** it with their classmates!



The ISN is divided into TWO sections:

Left Side

- “LOVES” YOUR work.
This is the side that students can use to show me what they learned in a creative and colorful way.
- This is the “output” or product side.
- Even-numbered pages

Right Side

- “RESTRICTED” to the teacher’s input work
- Contains info the teacher tells students to “ADD” or “WRITE”
- This is the “input” side or info side.
- Odd-numbered pages

WHAT GOES WHERE?

Left Side

Student Output

Lots of Color, Diagrams, & Doodles

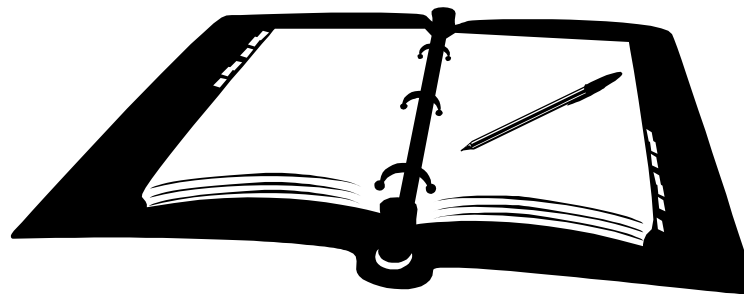
- ◉ Concept Maps/Organizers
- ◉ Drawings
- ◉ Reflective Writing
- ◉ Questions
- ◉ Data Charts and Graphs
- ◉ Songs, Poems, or Riddles
- ◉ Data from Experiments
- ◉ Cartoons or cartoon strips

Right Side

Teacher Input/Content

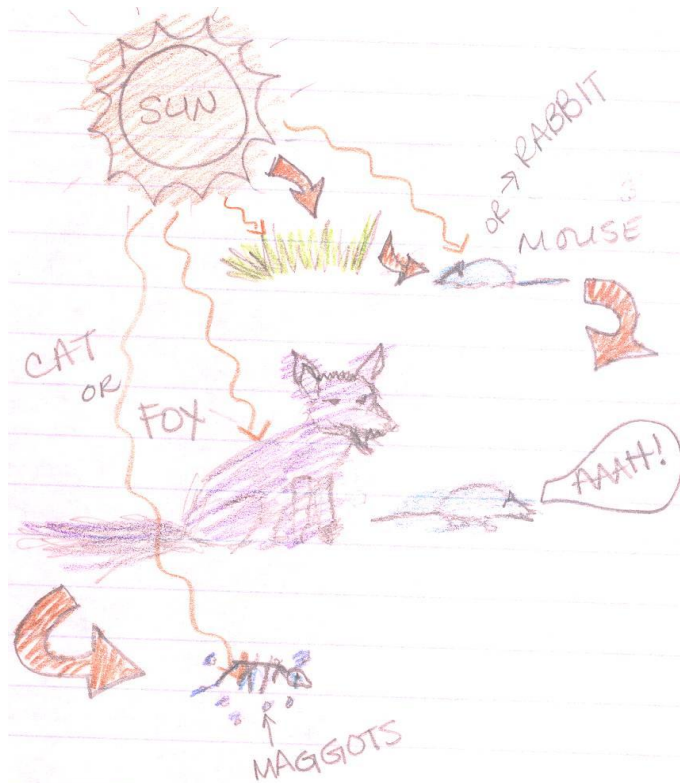
Blue/Black Ink or Pencil

- ◉ Information given in class
- ◉ Lecture Notes
- ◉ Lab Activities
- ◉ Video Notes
- ◉ Summaries
- ◉ Textbook Notes
- ◉ Procedures for experiments
- ◉ Classroom Specific Information



Example page:

OUTPUT (your interpretation)



A food web is made up of several linked food chains. The energy source flows through all the parts of the food web.

4.5c

Flow of energy through food webs

All organisms are part of a food web. Several food chains, which are linked, make up a food web. A food chain identifies the roles organisms use to get the food they need to survive. The sun, which is the source of energy, is the start of food chains. Food chains also contain producers, consumers, and decomposers. A producer is a plant. Plants use sunlight to make food. The greatest amount of energy in a community is in the producers. Primary, first-level, consumers are animals that eat plants. Secondary, second-level consumers, eat an animal for their food source. You have heard these called herbivores, carnivores, and omnivores. Do you remember the difference? Decomposers are organisms that break down wastes and dead plants or animals. The sun's energy cycles through ecosystems from producers through consumers and back into the nutrient pool through decomposers.

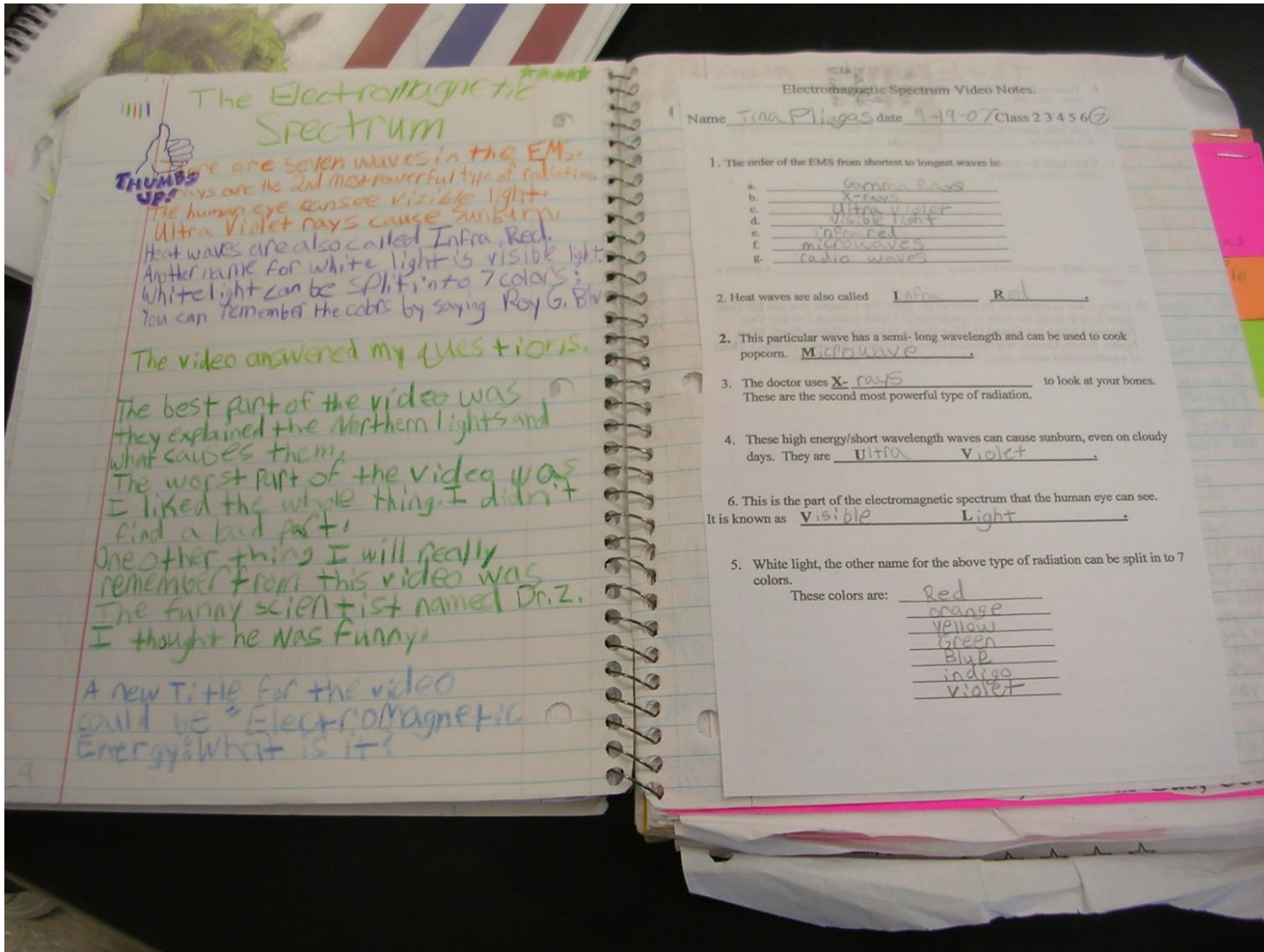
#1
① Dead plants
② eat animals
③ eat both

For example, a simple food chain might be the sun, grass, mouse, fox, and maggots. In this food chain what is the producer? What is the decomposer? What is the source of energy? This food chain is part of a larger food web. Can you see that changing the mouse to a rabbit makes a different food chain but in the same food web? What other chains in this food web could we create? Can you identify which are primary/secondary consumers, producers, and decomposers?

#2

OUTPUT
(your interpretation)

INPUT
(notes from teacher)



Science Notebook Supplies

Colored Pencils



Spiral Notebook



Pens & Pencils



Glue



May also use
composition notebooks

Scissors



Tap & Glue caps
Easy to use
\$1.00 each

NO MARKERS!

(except on the covers)

Notebook Rules

- ⦿ Do not **RIP OUT** pages or tear corners.
- ⦿ All handouts **MUST BE GLUED IN!**
- ⦿ No **DOODLES** unless it relates to science.
- ⦿ The ISN should only be used for **SCIENCE CLASS** and **COMES TO CLASS EVERYDAY!**
- ⦿ Each page should have the **DATE** and **PAGE#**.
- ⦿ **BE COLORFUL, CREATIVE, & LOVE YOUR NOTEBOOK!**

Frequently Asked Questions

- ▶ Doesn't it take a lot of class time to use ISNs?
- ▶ How do you change your existing worksheets and handouts to fit with the ISN format?
- ▶ How do you catch up work for students who have been absent?
- ▶ What happens when students forget their notebooks?
- ▶ What are the benefits of using ISNs?



Online Resources

Visit my website for a listing of resources with more information about utilizing ISNs in your class.

<http://sciencespot.net/Pages/ISNinfo.html>

QUESTIONS?

