

# MAISA and the REMC Association of Michigan Best Practices in Technology Integration Plan

**Title:** Exploring the Human Body

**Subject(s):** Science, Language Arts

**Intended Grade Level(s):** 5-8

**Description:**

The purpose of this unit is to have the students learn about the Human Body Systems. Each student will choose a system of the human body. They will research the following question/statement: Describe the system and what are the system's function(s). Once the research is completed, the students will make Hyperstudio stack with four cards : a title card, 2 question/statement cards, and a bibliography card. The stack must also include at least one sound and picture on a card.

**Curriculum Benchmarks:**

[MI.SCI.III.2.MS.1](#). Describe similarities/differences between single-celled and multicellular organisms.

[MI.SCI.III.2.MS.4](#). Explain how selected systems and processes work together in plants and animals.

[MI.ELA.11.MS.1](#). Identify general questions from writing, reading, viewing, and discussing text about important issues that affect or interest them, and use discussion to narrow questions for further research.

[MI.ELA.11.MS.2](#). Identify the kinds of resources that are most appropriate and readily available for the particular questions or topic they wish to investigate.

**MI.ELA.11.MS.3.** Individually or collaboratively, organize and analyze information to draw conclusions based on investigation of an issue or problem.

**MI.ELA.11.MS.4.** Individually or collaboratively, develop and present a short presentation to communicate conclusions based on investigation of an issue or problem using multiple media.

### **Materials/Hardware/Software:**

To complete this project students should have access to the following:

- Access to the Internet and the World Wide Web.
- Library resources, such as, Encarta Worldbook, Laser Discs, Books.
- Equipment- scanners and laser disc player.
- Software Clarisworks and Hyperstudio from Roger Wagner.

### **Activities/Procedures:**

Teacher pre-activities:

1. The teacher needs access to a computer which has Hyperstudio from Roger Wagner Publishing installed on it.
2. Make sure each student or pair of students has a disk to save on.
3. Have all of the research material and equipment ready for students to begin .

Activities:

1. Introduce the activity to the students by explaining why they are doing it and what they should expect to do and learn.
2. Have students choose the system they will research. (You can also put students into pairs for the activity.)
3. Demonstrate the electronic research materials that students will be able to use for the activity. It is recommended that you use resources available on the Internet for the activity. Bookmark the sites that you think will be useful to the students and show them how to access these sites. Some sites are provided at the end of this section.
4. Have the students research their topic and get all of the information ready to publish on a Hyperstudio stack.

5 . Demonstrate to students how to use Hyperstudio for this project. Use the attached sheet to take you and the students through the process. Once you have done this, you will have student samples to show as well. There is also a plan sheet to help the students to stay organized.

6. If a lab is available, all students can work on the project during regularly scheduled lab times. If you have computers in you classroom, students will need to be schedule for computer time.

Web sites:

1. [http://www.nsf.gov/nstw\\_questions/start.htm](http://www.nsf.gov/nstw_questions/start.htm)  
(Ask a scientist or engineer)
2. <http://rpisun1.mda.uth.tmc.edu/se/anatomy/>  
(Shows detailed drawings of certain parts of the body)
3. <http://lenti.med.umn.edu/anatomy/heartblo.htm>  
(Clickable heart anatomy tour)
4. <http://www.fsciumn.edu/nutrexpyrami~1.htm>  
(interactive guide to hpl students choose a healthful diet)
5. <http://www.ganesa.com/food/>  
(Food Pyramid)
6. <http://tqd.advanced.org/3007/systems.htm>  
(Anatomy and Physiology database)
7. <http://tqd.advanced.org/2824/>  
(Medman)
8. <http://tqd.advanced.org/2935/>  
(Natures bets : the human body)
9. <http://tqd.advanced.org/3598/>  
(cranial cruise)

\*\* Some of the web sites are a little more advanced than others, but they are all good. There are also many more great websites you may wish to find on your own.

**Assessment/Evaluation:**

# Human Body Systems

## Rubric for Research Hyperstudio Project

We will be doing a research project on the Human Body. First you will be working on researching one of the following Human Body Systems: Circulatory, Respiratory, Digestive, Skeletal, and Muscular. After you finish researching, you will start your Hyperstudio Project. Follow the rubric below when doing your Hyperstudio stack..

4 - You will need to have:

- A title card with your names on it.
- Two information cards that answer the following thoroughly:
  - Describe the system.
  - What is the system's function?
- A bibliography card(see sample attached).
- Add at least one picture and sound to one of your cards.

3 - You will need to have:

- A title card with your names on it.
- Two information cards that answer the following:
  - Describe the system.
  - What is the system's function?
- A bibliography card(see sample attached).
- Add at least one picture and sound to one of your cards.

4 - You will need to have:

- A title card with your names on it.
- One information card that answers the following:
  - Describe the system.
  - What is the system's function?
- No bibliography.
- No sound or pictures.

### **Follow-up Activities:**

- Have students write to local, state, national, and federal institutes with questions they may still have.
- Have a parent night to show our Hyperstudio stacks.
- Students will research nutrition to help them understand the proper way to take care of your body.

- Present information in a “simple to understand format “ to lower elementary students.
- Have a doctor/nurse visit the classroom to discuss his/her specialty and how it relates to the human body systems.
- Explore careers that relate to this topic.
- Write and present a play/musical about the human body.

**Name: Karen Norman**

**School District: Midland Public Schools**

**School: Adams Elementary**

**Address: 1005 Adams Dr.**

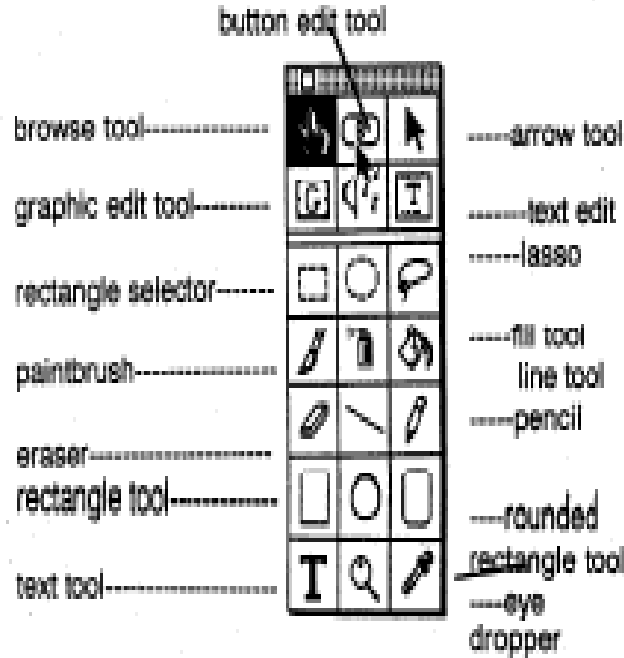
**Midland, MI 48642**

## **Hyperstudio Basics**

1. Create a new stack
2. When you first begin a stack, create 4 or blank cards This is done by choosing “new card” from the edit menu.
  - A. Move the paint can tool found under the tool menu
  - B. Create your background
    1. Choose the paint can tool found under the tool menu
    - 2 . Choose the background ( color or pattern) from the color menu
    3. Place the paint can icon on the blank card, click mouse
3. Add your graphic
  - A. choose a graphic from object menu
  - B. click OK 2 times for the message "you do not have enough privileges to access that location"
  - C. go to places and click once
  - D. select HSART folder and click open
  - E. select your graphic from HSART
4. Add a text item
  - A. Choose ADD A TEXT ITEM from the Objects menu
  - B . Create the size of text box you wish by using the mouse to move the sides of the rectangle. CAUTION: Once you have clicked the cursor outside the text box, the box is permanently placed on the card. If you wish to make changes, you must then choose the editing tool.
  - C. Choose the color of the background and text by clicking the cursor within the prompt boxes that appear.
  - D. Choose “scrollable” box if you wish to type more information than what will appear on the screen.

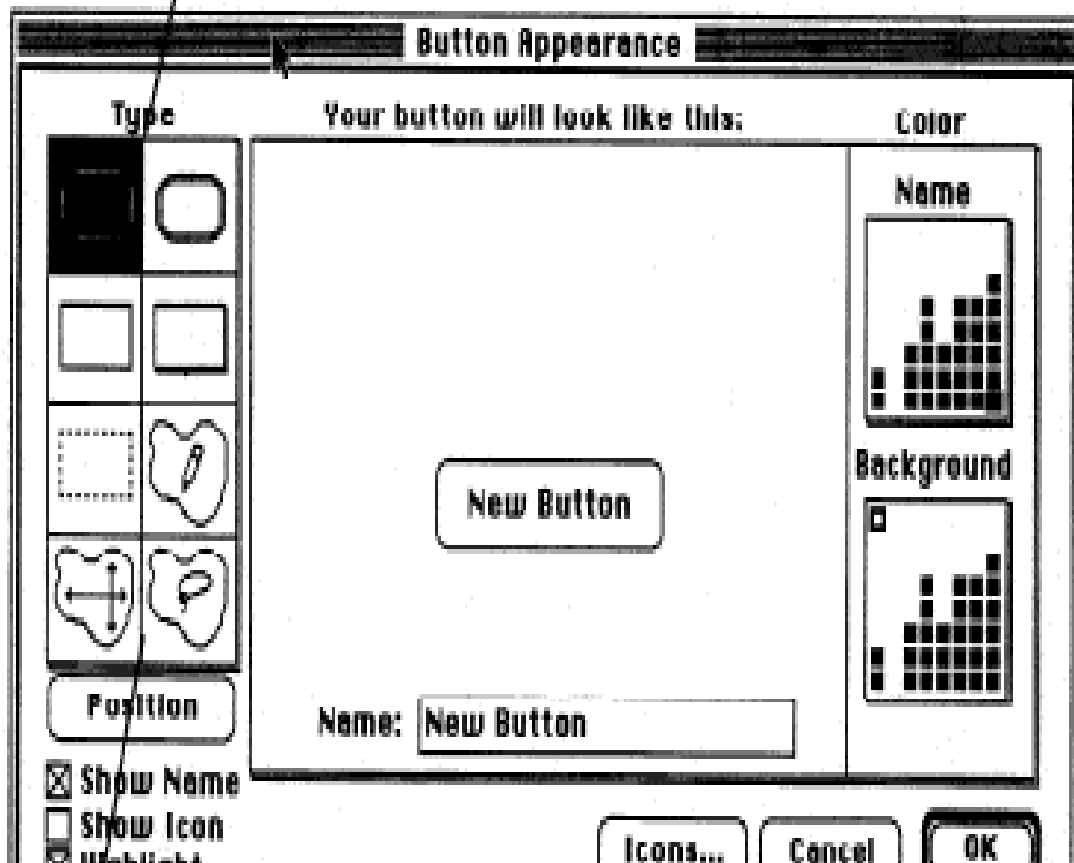
5. Add a button
  - A. Choose ADD A BUTTON from the objects menu
  - B. You will need to choose the style of button you wish to have
  - C. You will need to give it a name, or command. Whatever you type within the button box, will appear on the screen.
  - D. You will need to change the color of the button background and color of the text.

Objects	Colors	Options	Ex
Add a Button...			⌘B
Add a Graphic Object...			⌘G
Add a Text Object...			⌘T
Hypertext Links...			⌘L
Bring Closer			⌘+
Send Farther			⌘-
About this Card...			
About this Stack...			



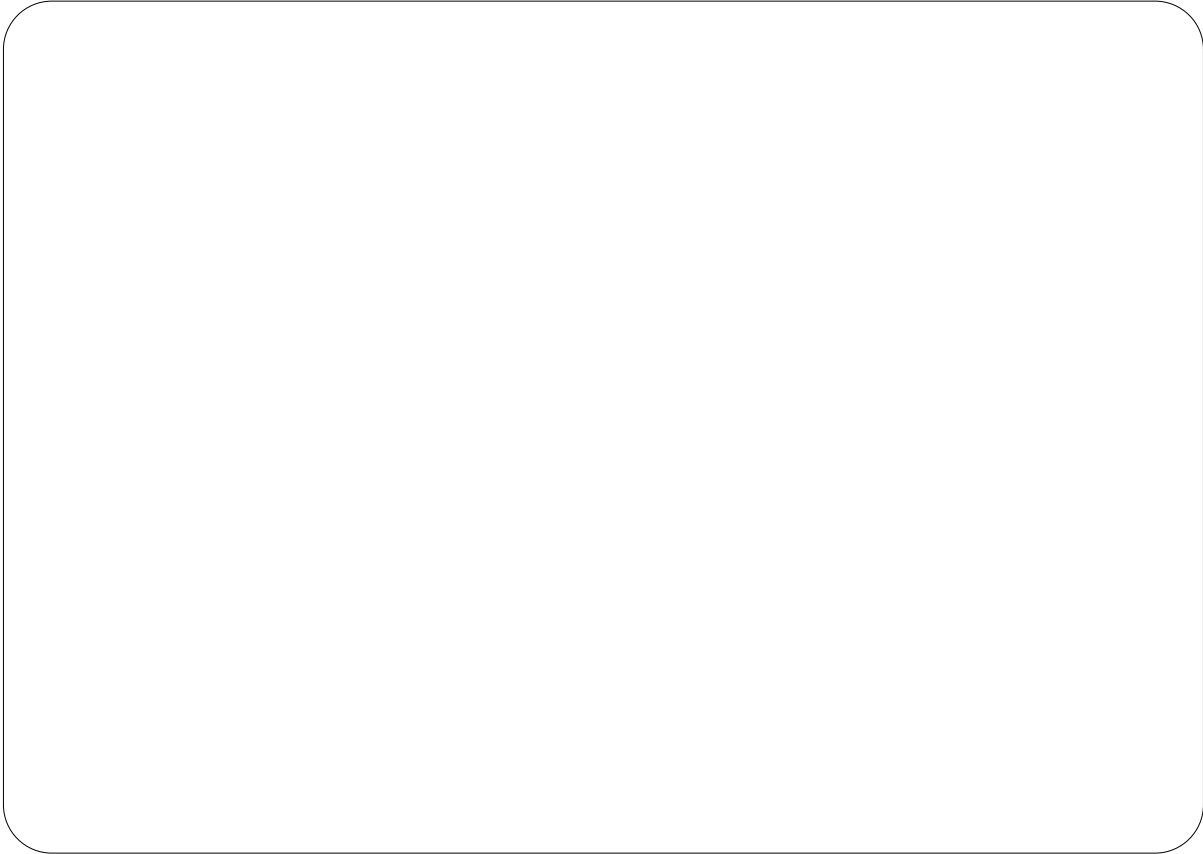
magnifying glass

**VISIBLE BUTTONS**



# Hyperstudio Plan Sheet

**Stack Name**  
**Name**  
**Card Number**



**Card Background Information:**

**Button Information:**

**Other Instructions:**