Science Hunt

3-5

Welcome to the Michigan Science Center.

Within the galleries, you will find the answers to our Science Hunt questions by exploring the laboratories and interacting with the exhibits.

Note to chaperones and adults: You may need to help children read the questions and exhibit signs and also write the answers. You may choose to fill out one sheet as a group.

Explore the possibilities!

Main Level

How many chambers does a human heart have?

four

Look at the fish scale under the microscope. Draw what it looks like. What does the microscope do to the image?

N/A

In *TAM*, the light up human body, list an organ that lights up red, one that lights up yellow, and one that lights up green.

Red- diaphragm, lungs, heart, pancreas, kidney, appendix, liver, larynx, uterus, tonsils

Yellow- pancreas, esophagus, trachea, small intestine, ascending colon, transverse colon, descending colon, bladder, stomach

Green- gall bladder.

Lower Level

If you could make a tornado big enough to rip the bark off of a tree, what would its Fujita rating be? How many mph would its winds move?

F5, 261-318 mph

Read the exhibit signs to find: What is a fulcrum? Where is a fulcrum in this gallery?

The pivot point or support point of a lever- in the Giant Lever and Lever exhibits.

Find the giant *Foucault Pendulum*. Look for the arrow that shows which direction it was swinging when it was started. What has happened? Why?

The Earth has spun since this morning- out from underneath the pendulum. So, compared to the ground, the pendulum is swinging in a different direction.

List two exhibits in which white light is split into a rainbow.

Prism and Diffraction Grating

Using the *Hand Generator*, which takes more force to run, a regular bulb or a fluorescent bulb? Therefore, which takes more energy and money to run?

Regular bulb

Describe how two types of energy are used in the Matter and Energy Gallery.

Answers will vary. Could include heat, electricity, motion, light, sound.

Name one exhibit that heats something. What happens when it is heated?

Convection, Thermocouple, Hot Air Balloon, PV=nRT, Plasma Globe, Jacob's Ladder,or the hair dryer in Electricity Users.