Example Body Part Presentations

An “A” Presentation on the Liver
✓ Topic is clear & focused
✓ Liver details shown in photo
✓ Liver location in body shown in diagram
✓ Cow’s liver shown, differences noted & groups dissect & view under microscope
✓ Large plastic bag model of liver shown & all details explained
✓ Cooked cow’s liver & onions taste & smell test done & nutrition info given
✓ Liver Jeopardy played for prize (pate on crackers) with 40+ facts tested

A “C” Presentation on Lungs
✓ Topic is clear & focused
✓ Lungs shown in textbook
✓ Lung area shown on body
✓ Lung cells compared to carpet sample texture
✓ Lung info given in anagram
✓ Lung quiz given on 25-30 facts presented

Topics to Choose From

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Teacher’s Notes for Body Parts Project

The best way to introduce students to this project is to give an example Presentation yourself, or invite a guest speaker to do one.

The best source of facts to present on any body system or part is at www.wikipedia.com. Facts on the liver from this & other sources are below. Highlight what you find interesting to do your demo!
Liver

From Wikipedia, the free encyclopedia

Contents

1 Anatomy
   1.1 Surface anatomy
   1.2 Functional anatomy
2 Physiology
3 Diseases of the liver
4 Liver transplantation
5 Development
   5.1 Fetal blood supply
6 Analogous organs
7 Liver as food
8 Cultural allusions

The liver is one of the largest internal organs of the human body.

The liver is an organ in vertebrates, including humans. It plays a major role in metabolism and has a number of functions in the body including drug detoxification, glycogen (glucose or sugar) storage, and plasma protein synthesis (in the blood). It also produces bile, which is important for digestion. Medical terms related to the liver often start in *hepato-* or *hepatic* from the Greek word for liver, *hepar*.

- The adult human liver normally weighs between 1.3 - 3.0 kilograms, and is a soft, pinkish-brown "boomerang shaped" organ.
- Anatomical position in the body is immediately under the diaphragm on the right side of the upper abdomen. The liver lies on the right of the stomach and makes a kind of bed for the gallbladder (which stores bile).
- The liver is supplied by two main blood vessels on its right lobe: the hepatic artery and the portal vein. The portal vein brings venous blood from the spleen, pancreas, and small intestines, so that the liver can process the nutrients and byproducts of food digestion.
- The liver is among the few internal human organs capable of natural regeneration of lost tissue; as little as 25% of remaining liver can regenerate into a whole liver again.
- The liver is divided into 4 lobes, 2 on the right and 2 on the left, one larger than the other on each side.
- The various functions of the liver are carried out by the liver cells or hepatocytes.
- Many diseases of the liver are accompanied by jaundice. Diseases include hepatitis, cirrhosis, hemochromatosis, cancer, Wilson's Disease, and others. Many of these can kill you if no medical treatment is given.
- Liver transplantation is the only option for those with irreversible liver failure. Most transplants are done for chronic liver diseases leading to cirrhosis, such as chronic hepatitis C, alcoholism, autoimmune hepatitis, and many others. Living donor liver transplantation is a technique in which a portion of a living person's liver is removed and used to replace the entire liver of the recipient. This was first performed in 1989.
- Native Hawaiian men and women have the highest rates of death from liver, lung and pancreatic cancer compared to all other ethnic groups on the islands.
- A 2002 report from Germany linked serious liver disease to kava in pill form, but there is no proof Hawaiian kava is bad for the liver in its natural herbal form & traditional uses.
- The spice tumeric is believed to increase the supply of bile and be good for the liver.
- Food Liver: Mammal and bird livers are commonly eaten as food: products include liver paté, Leberwurst, Braunschweiger, foie gras, chopped liver and liver sashimi. Both animal and fish livers are rich in Vitamin A, cod liver oil being commonly used as a supplement. Vitamin A levels can be toxic, particularly in polar animals; the Antarctic explorers Douglas Mawson and Xavier Mertz were both poisoned, the latter fatally, from eating husky liver.
- Culture Note: In Greek mythology, Prometheus was punished by the gods for revealing fire to humans by being chained to a rock where a vulture or an eagle would peck out his liver, which would grow again overnight.