Blood PowerPoint Notes

What is the function of blood?

You have about 5 ______________ of blood in your body. Blood is a ______________ connective _____________. It is made of a fluid called ______________, two types of ______________ (red blood cells and white blood cells), and particles called ______________. The main function of blood is to supply ______________ and ______________ to tissues and to remove ________ products like ______________. Blood also transports ______________, enzymes, and ______________ cells between ______________ and ______________. Any interruption in the flow of blood can cause ______________ in a matter of minutes. Interruptions in blood flow may be caused by a heart attack, ______________, or blood clots.

Plasma

About 55% of your blood is ______________. Plasma is the ______________ part of the blood that contains ______________, dissolved nutrients, sugars, and proteins. Floating in the plasma are ______________blood cells, ______________ blood cells, and ______________.

Red blood cells

About 45% of your blood is made of ______________ blood cells. Red blood cells transport ______________ to your cells. Red blood cells are red because of a pigment called ______________. Hemoglobin grabs onto the oxygen molecules you ______________ and carries them to your ______________.

White blood cells

______________ blood cells and platelets make up a tiny fraction of your blood. White blood cells are part of your ______________ system. They help fight ______________ by destroying invaders like ______________ and ______________. Some white blood cells ______________ invaders. Others produce ______________ that destroy invaders.

Platelets

______________ are particles that prevent blood ______________. When you cut or scrape your skin, platelets ______________ together in the damaged area and form a “______________.”

Blood Types

People have different blood types. A blood type is based on the presence or absence of two ______________ (A, B) on the surface of red blood cells. There are ______________ possible blood types (ABO groups):

- Type A - Only the _____ protein is present.
- Type B - Only the _____ protein is present.
- Type AB - Both ______________ are present.
- Type O - Neither _____ is present (about ______________ of the population).