

# Science Experiments: Biology

## Make Tasty Blood!



### Materials:

- Raspberry jubes
- Corn syrup (or glucose syrup). You can also use gelatin or honey.
- Sprinkles, hundreds and thousands or desiccated coconut
- White jelly beans or marshmallows
- A cup and spoon to mix it all in

### Experiment:

1. Chop up the marshmallows (or white jelly beans) and raspberry jubes. Don't mix them.
2. Mix the candy "blood" in a large, clear container.
  - five and a half tablespoons of the corn syrup (or honey)
  - four and a half tablespoons of the raspberry jubes
  - half a teaspoons of the white jelly beans (or marshmallows)
- half a teaspoons of the sprinkles (or hundreds and thousands or desiccated coconut)

Make sure that you mix the four main components of blood in the correct quantities you would find in human blood:

- 44% raspberry jubes
- 55% corn syrup
- 0.5% white jelly beans or marshmallows
- 0.5% sprinkles or hundreds and thousands or desiccated coconut

### What is happening?

#### Red blood cells (Raspberry jubes)

Makes 44% of blood volume. They carry oxygen and carbon dioxide around the body. Red blood cells only live for about 3 months but are continuously produced in the bone marrow.

#### Plasma (corn syrup)

Makes 55%, of blood volume. Looks like a thick, clear, yellowish liquid. It carries dissolved food (nutrients) towards the bodies' cells and transports waste products for disposal by the liver.

#### White blood cells (white jelly beans or marshmallows)

Makes 0.5% of blood volume. These cells are bigger than red blood cells, coming in different shapes and sizes. They destroy bits of old blood cells and attack germs (bacteria) by 'eating' them (phagocytosis).

#### Platelets (sprinkles or hundreds and thousands or desiccated coconut)

Makes 0.5% of blood volume. They help clot your blood so that you stop bleeding when you're injured.