

## Topic 10 Worksheet: Blood Components

1. What are the three formed elements in the blood?

RBC, WBC, platelets

2. What is the liquid component of the blood?

plasma

3. What are the two functions of white blood cells?

produce antibodies, phagocytosis

4. What are the functions of the red blood cells?

carry O<sub>2</sub> and CO<sub>2</sub>

5. What makes blood red and binds with oxygen and carbon dioxide to transport it?

hemoglobin

6. What is the function of platelets?

blood clots - prevent you from bleeding out

7. What are the functions of plasma?

to transport blood components, wastes, nutrients, hormones, etc.

8. When you cut yourself, what blood component are you seeing?

red blood cell (and plasma)

9. What is the function of antibodies?

to protect your body; attack foreign substances.

10. Why do we not want platelets clumping together in the blood?

could cause blood clots which could block blood vessels.

11. Determine if each is describing WBC, RBC platelets or Plasma

- |   |                 |                            |        |
|---|-----------------|----------------------------|--------|
| a- They have no nucleus                 | RBC, platelets. | f- They cannot cell divide | RBC    |
| b- They have a nucleus                  | WBC             | g- They can cell divide    | WBC    |
| c- They live about 120 days             | RBC             | h- They make blood liquid  | plasma |
| d- They have different life spans       | WBC             | i- They live about 10 days | WBC    |
| e- They are produced in the bone marrow | RBC, WBC        |                            |        |

12. In the table below, specify which blood component carries out the function described:

Function	Blood Component
Defends the body	WBC
Transports oxygen	RBC
Makes blood fluid and transports wastes, hormones and waste products	Plasma
Helps in the blood clotting process	platelets.