

## **Mastery Series: Hematopoiesis “Blood Formation”**

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1. Where are new blood cells made?
2. What are the two basic forms of hematopoietic stem cells?
3. What can myeloid stem cells become?
4. What can lymphoid stem cells become?
5. What are the stages of erythrocyte development?
6. How long does a RBC live?
7. What gene is being rapidly transcribed inside an RBC before it ejects its nucleus?
8. What mRNA is being rapidly translated inside a reticulocyte before it degrades its ribosomes?
9. Which stages of an erythrocytes develop actually circulate in the blood?

## **Hematopoiesis “Blood Formation”**      **Mastery Series Answers**

1. red bone marrow
2. Lymphoid and myeloid stem cells
3. eosinophils; basophils; neutrophils/erythrocytes/platelets
4. T and B cells
5. normoblast; reticulocyte; erythrocyte
6. ~4 months
7. hemoglobin
8. hemoglobin
9. reticulocyte and erythrocyte