

Cross-Curricular Connections: Q

Directions: Define key science terms relating to topics in immunology and physiology using contextual clues from "[Transplant tolerance](#)." Consult an outside resource if necessary.

Word bank and definitions by science subtopic:

Immunology

What is the immune system, and what does it do?

What is an allergic response?

What is transplant rejection?

What is an autoimmune disease?

What is immune deficiency?

What are antibodies?

What are B cells?

What are HLAs and MHCs?

What are T cells?

What are cytotoxic T cells?

What are macrophages?

What are helper T cells?

What are regulatory or suppressor T cells?

What are memory B cells and memory T cells?

What are vaccines?

What are natural killer (NK) cells?

What are mast cells?

What are phagocytes?

Anatomy and physiology

What does the liver do, and what problems can happen if it is not functioning properly?

What does the pancreas do, and what problems can happen if it is not functioning properly?

What do the kidneys do, and what problems can happen if they are not functioning properly?

What does the spleen do, and what problems can happen if it is not functioning properly?

What do the lungs do, and what problems can happen if they are not functioning properly?

What does the heart do, and what problems can happen if it is not functioning properly?

Discussion beyond the article: The article presented a timeline called “Second chances” with a few of the major milestones in the history of organ transplants. With a partner, [search the Science News archive](#) and find another article about an organ transplant. After you have read and summarized the article, share the information with your classmates. Make sure that you include the year of the transplant milestone in your description. After all the information is presented, create a timeline as a class showing the history of organ transplants. Include the milestones in the “Second chances” timeline.