

Listen to the audio and complete the tasks.



## Article 12. What is Ultrasound?

Click that word!



Ultrasound is sound waves with frequencies higher than the upper **audible** limit of human hearing. Human ears can hear anything between 20 and 20,000 **hertz**. Ultrasound consists of sound waves higher than that; this is the reason why humans could not hear them.

For many decades, medicine has **relied** on ultrasound to picture soft tissues inside the body. This type of diagnostic **ultrasound**, usually with a transducer, uses **low-energy waves**. That makes it safe for checking the health of **unborn babies** in the womb. Doctors also use it to **scan** for diseases in **children** and adults. More **recently**, researchers have been studying how ultrasound with **higher energy** might be used to treat certain diseases. This is called **therapeutic ultrasound**. In fact, doctors already use therapeutic ultrasound to **treat** kidney stones. The **high-energy** sound waves break kidney stones into tiny pieces, thus makes it easier for the body to **flush them out**.

Researchers are also studying other possible therapeutic **uses** for ultrasound, too. For example, they would like to destroy cancer cells without **harming** neighbouring cells. They also have shown that ultrasound can **trigger** brain cells to release signalling chemicals. This might one day lead to treatments for brain diseases and mood **disorders**. << Click that word!

Fill the gaps!

<https://www.scienceforstudents.org/article/explainer-what-ultrasound>

relied

treat

trigger

scan

flush out



The victim of the accident  on assisted oxygen supply since he damaged his lungs quite severely.

Lemon helps  toxins in the gastrointestinal tract and strengthen the immune system.

The medical examiner continued to  the x-ray for vital information but found none.

If you don't dress warmly in the winter, the cold temperatures could  a serious health condition called hypothermia.

Many years ago, we discovered a way to  contagious diseases effectively with immunizations.