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## OUTRAS CARACTERÍSTICAS DO SOM

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## RELEMBRANDO - ONDAS



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All of the experiments  
in this video are real.

Fonte: <https://www.youtube.com/watch?v=Q3oltpVa9fs>



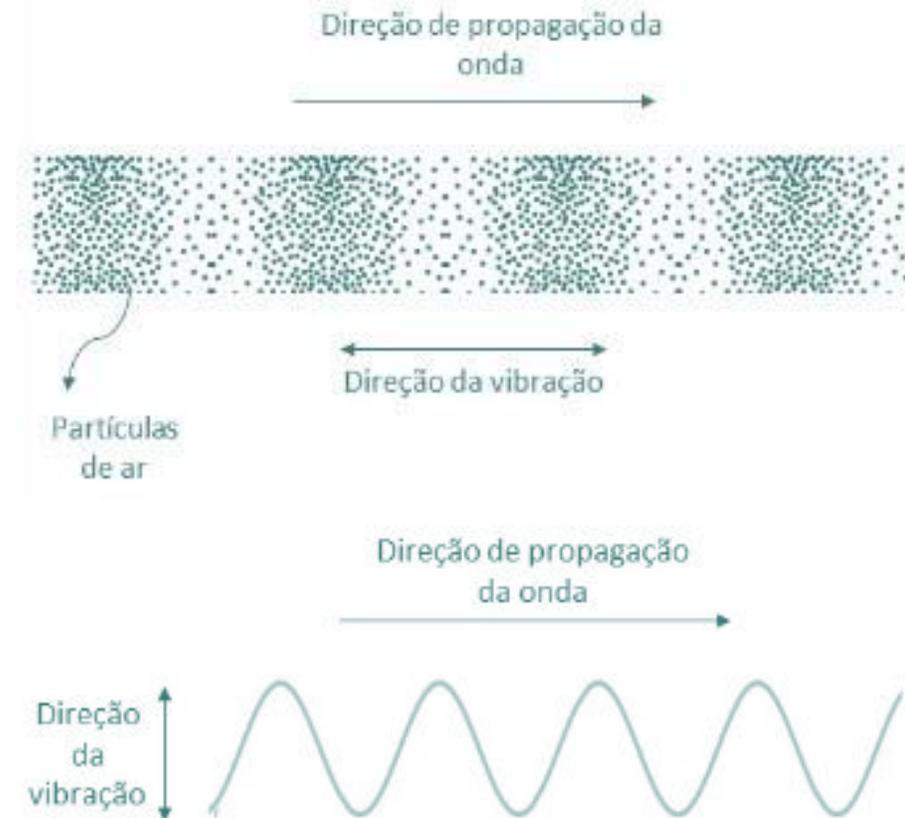
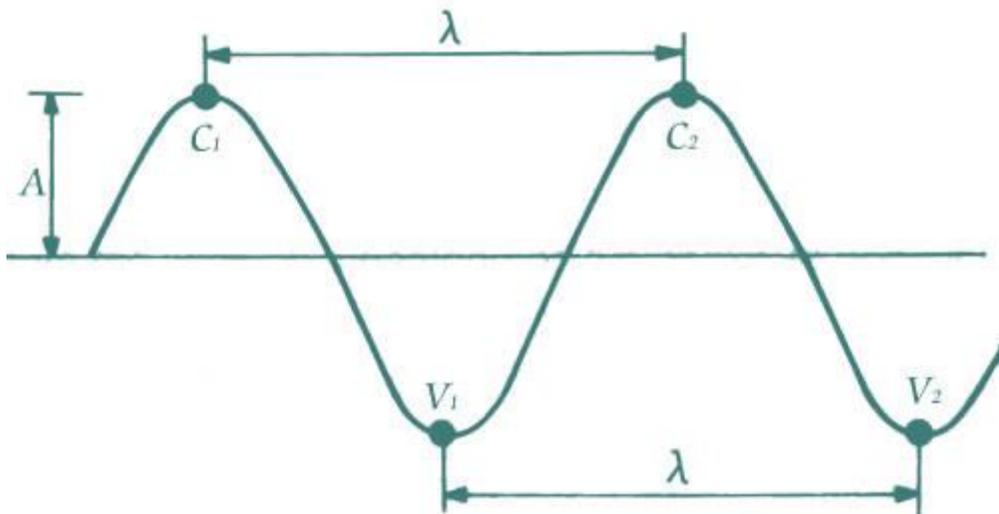
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- Transporte de energia, sem deslocamento de matéria





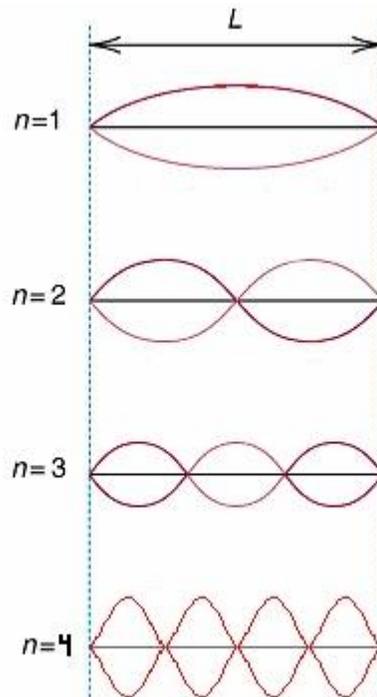
- Principais características físicas





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■ Características físicas

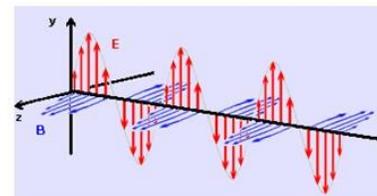
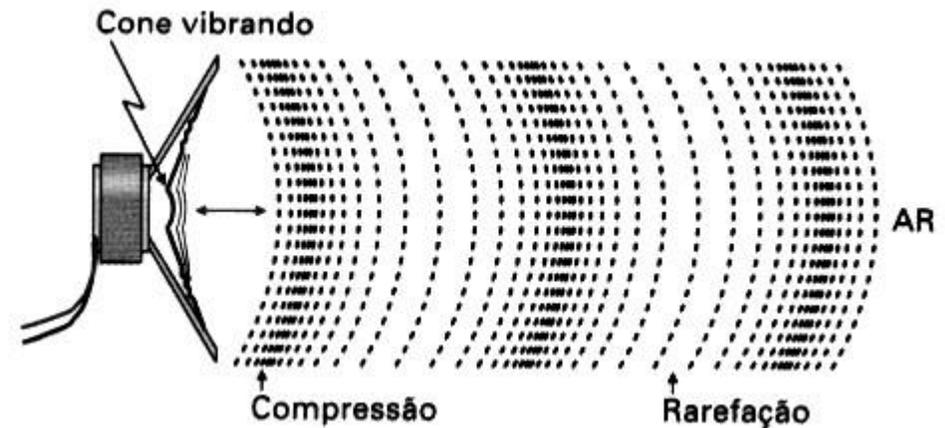


1º Fuso  $\lambda = 2L$

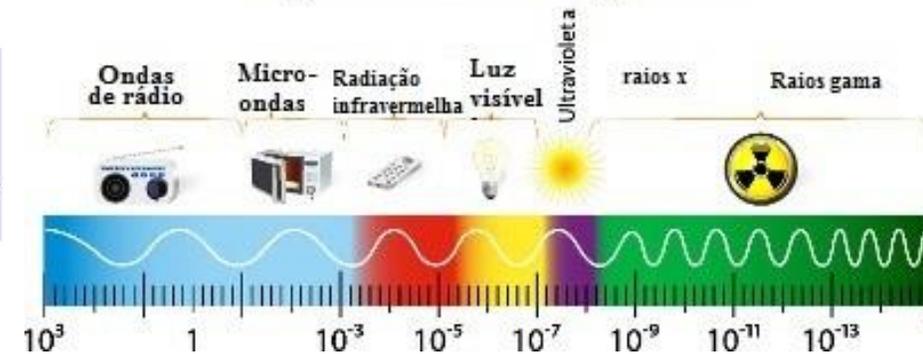
2º Fuso  $\lambda = L$

3º Fuso  $\lambda = \frac{2}{3}L$

4º Fuso  $\lambda = \frac{1}{2}L$



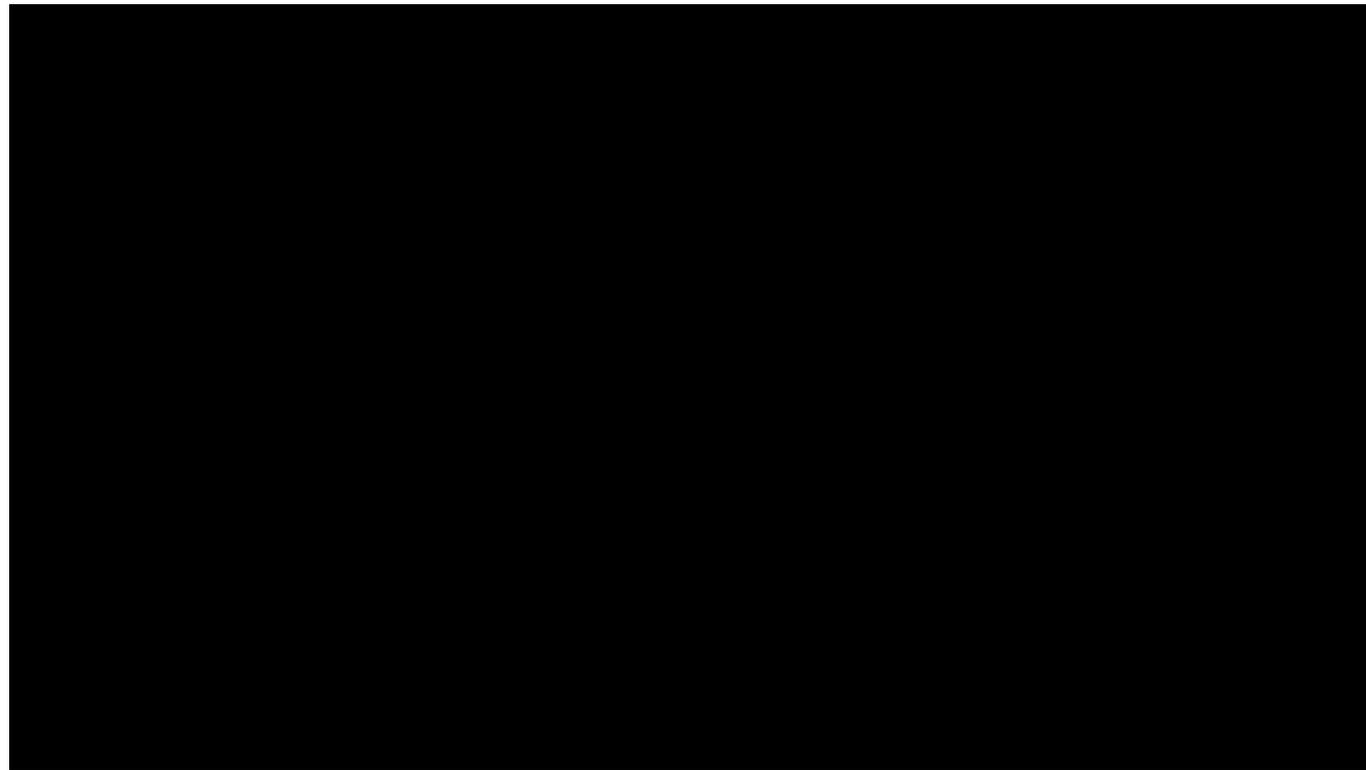
**Espectro Eletromagnético**



## RELEMBRANDO - SOM



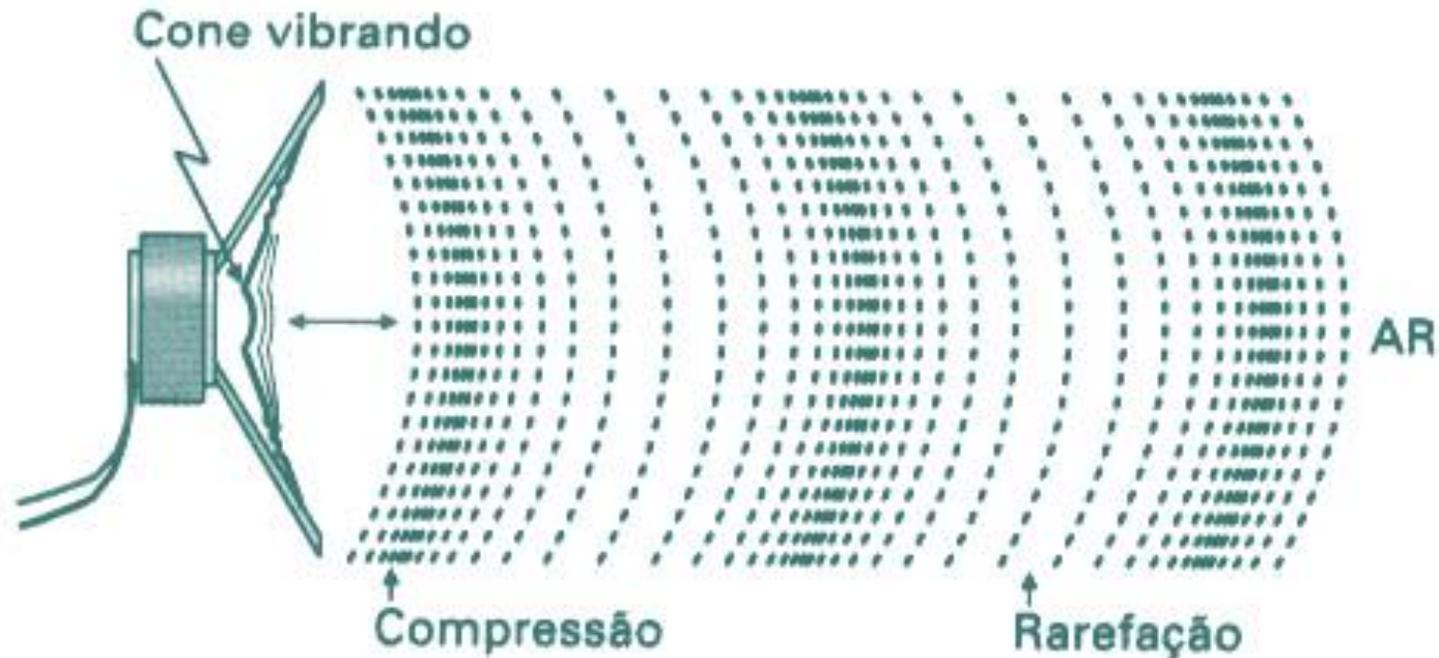
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Fonte: <https://www.youtube.com/watch?v=-0gED3rn2Tc>

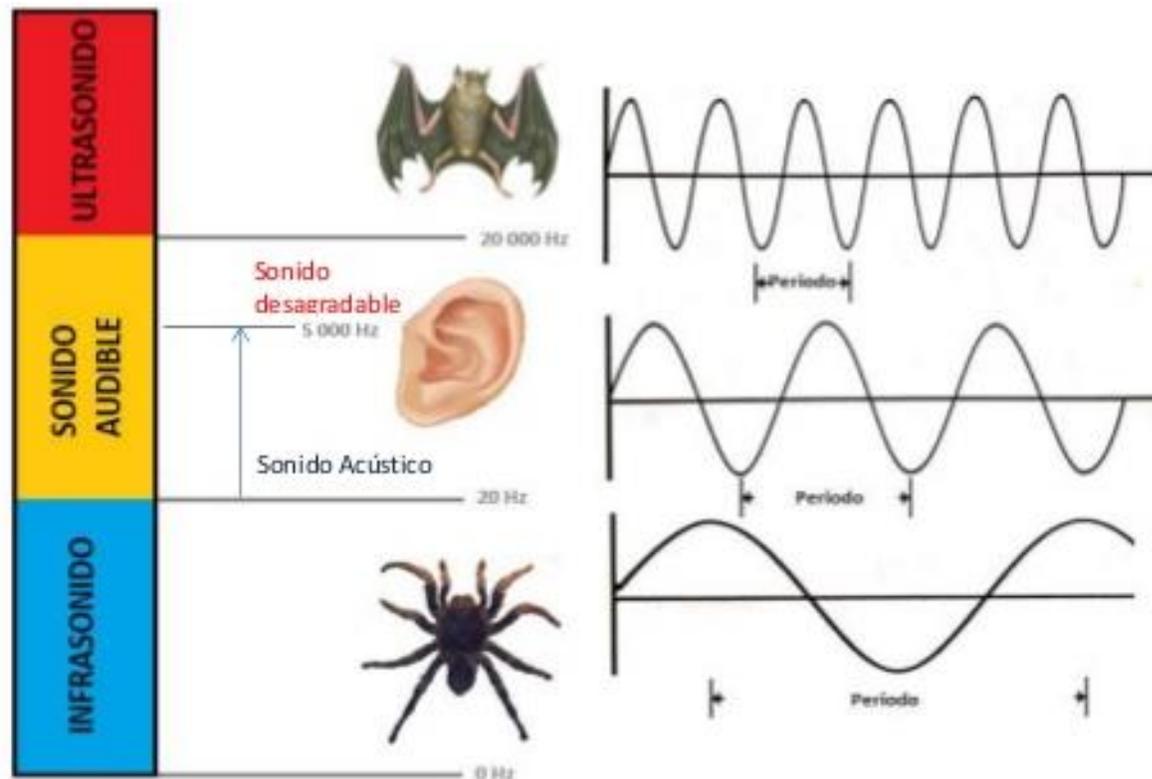


- Onda Mecânica longitudinal





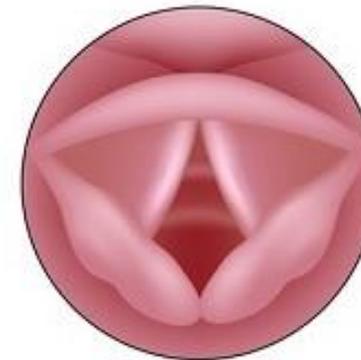
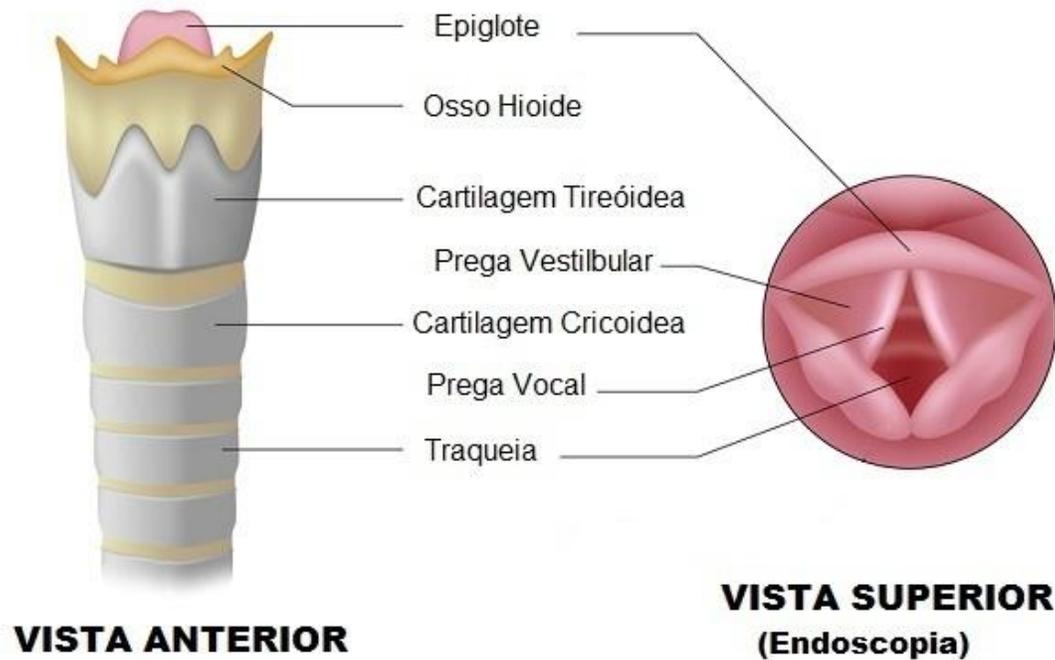
## ■ Frequências



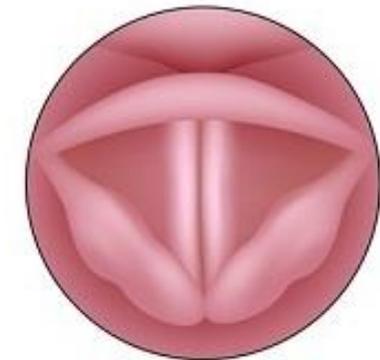
Obs.: ondas de mesmo tipo e com a velocidade de propagação possuem relação inversa entre comprimento de onda e frequência



## ■ Fonação



**Respiração**

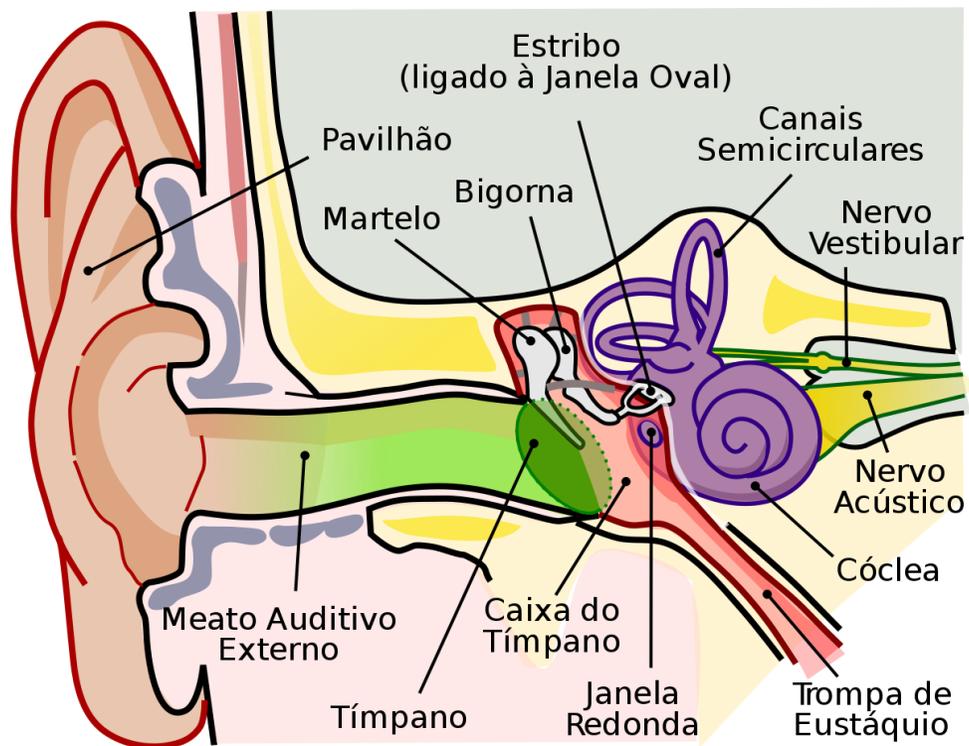


**Fonação**

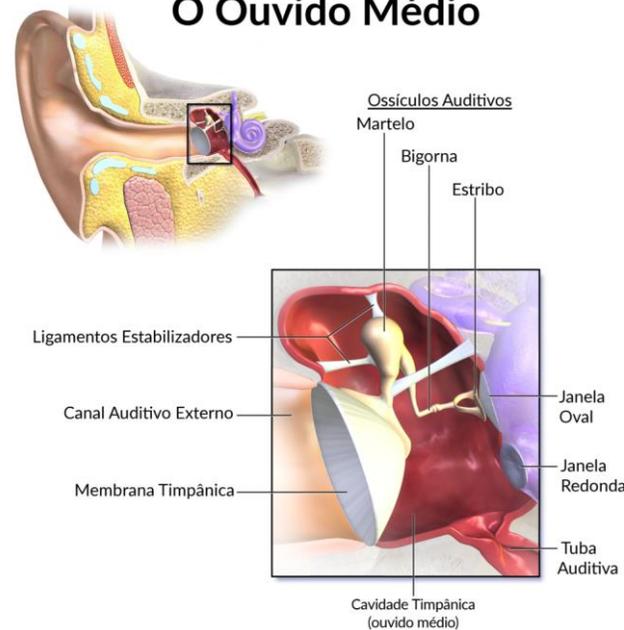
Fonte: <https://www.todamateria.com.br/laringe/>



## ■ Audição



## O Ouvido Médio



## O Ouvido Interno



Fonte: <https://pt.wikipedia.org/wiki/Audi%C3%A7%C3%A3o>



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## ■ Ultrassom

