

**WEBQUEST: Light and the Electromagnetic Spectrum** via NASA.gov

We have learned waves transmit energy by two means, mechanical (such as the wind and slinky) and electromagnetic (light). You will need access to the Internet in order to complete the questions/activities below. Text in blue means its hot text and is actually an active link to the Internet. Clicking on the colored text will take you to the appropriate site.

Start your webquest by clicking on the hyperlink [Introduction to EMS](#). Take a look at the picture of the Electromagnetic Spectrum and then click on the tab at the right (or hot text at the bottom) of the page [Anatomy of an Electromagnetic Wave]

1. Waves we cannot actually see (unlike ripples) and those NOT needing a medium to travel within belong to this category of waves? \_\_\_\_\_
2. Waves we cannot actually see (unlike ripples) and those needing a medium to travel within belong to this category of waves? \_\_\_\_\_
3. Why cannot sound travel through outer space?
4. How do astronauts overcome this obstacle when communicating in space?
5. Who is Heinrich Hertz and what did he discover? (be brief)



6. From the picture above, how do radio, television, light, and X-rays differ from each other since all are a form of light wave?
7. Which wave type has the longest wavelength in the electromagnetic spectrum? \_\_\_\_\_ the shortest? \_\_\_\_\_

# Electromagnetic Waves Webquest Answer Key

**RD Boyd**



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