

- Reading -

Answer the following questions in your notebook as you do the reading. The questions are in order of appearance. **Answer in complete sentences.** 

- 1. How fast do light waves travel?
- Which type of electromagnetic radiation contains little energy? Which as a great amount of energy?
- 3. Why is advantageous to explore space using all regions of the electromagnetic spectrum?
- 4. What filters and blocks most wavelengths in the electromagnetic spectrum?

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### - Reading Discussion -

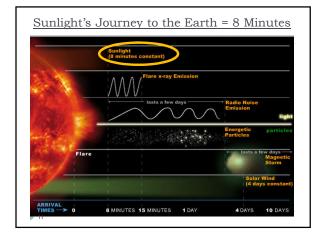
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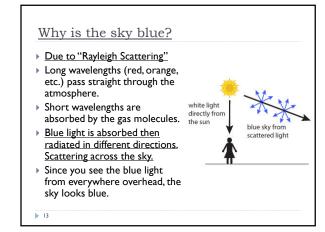
## Forms of EM Radiation from the Sun

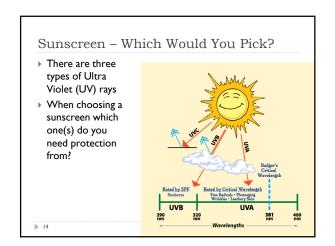
- From the core: Gamma Rays
  - Good news! By the time it reaches the surface its energy has dropped to IR/Visibile/UV
- From the surface: Infrared, Visible and Ultra Violet
- From solar flares: X-Rays

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# Today's Main Idea Not all sunlight emitted from the sun reaches the surface of the Earth. Filtered by the atmosphere. Reflected by Clouds 19% Absorbed by Almosphere and Clouds Reflected from Surface 51% Absorbed at Surface





# Explore HW Questions

2. Explore today's main idea with this question:
What is the same for all types of electromagnetic radiation?

Helpful Textbook Pages: 747 - 748

# Vocabulary for Next Time:

- ▶ Photosphere
- ▶ Chromosphere
- ▶ Corona

Helpful Textbook Pages: Glossary

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