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Earth on Radiation about Worksheet الملف

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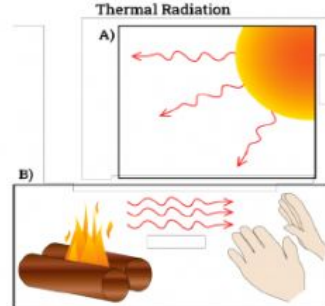
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Review- Radiation!

Radiation is one of three ways that thermal energy (heat) can be transferred. With radiation, heat is transferred in waves, usually from a heat source like the sun, fire or a light bulb. **All the energy that we get on earth comes from the sun.** The sun gives the earth both light and heat energy, but as the earth spins, the sun does not heat all parts of the earth evenly due to the earth's tilt.

In the video below, you will watch an experiment that demonstrates how the sun does not heat each part of the earth equally. As you watch the experiment, fill out the table below the video.



Location	Start Temp.	1 min.	2 min.	3 min.	4 min.	5 min.	6 min.	Final Temp.
Location 1- Equator	74 F							
Location 2- Libya	74 F							
Location 3- Sweden	74 F							

Follow Up Questions:

What type of thermal energy transfer was demonstrated above?

- A. Conduction
- B. Radiation
- C. Convection
- D. None of the above

Choose the correct definition for radiation from the options below.

- A. thermal energy that moves from one place to another through direct contact
- B. thermal energy that moves from one place to another in the form of waves
- C. thermal energy that moves from one place to another by heated particles moving location
- D. thermal energy that does not move at all

Which location from the experiment received the most direct sunlight?

- A. Location 1- Equator
- B. Location 2- Libya
- C. Location 3- Sweden

How did this location receive the most direct sunlight?

How do you think the uneven heat distribution on the earth contributes to the diversity of ecosystems that exist?

What other examples of radiation on earth can you think of?