

Aim: Specific Heat, why does water heat up at a different rate than the pan?

Energy from sun that reaches Earth's surface - Visible light
Ozone layer absorbs - UV rays

Dark land heats up faster.

Factors Affecting Rate at which Earth heats up

- ① Color - Dark } Absorb Light }
 } Reflect Heat
- ② Texture - Rough }
 } Smooth }
 } Heat

③ Latitude / Angle Insolation - Tropics + Equator, More Intense Insolation, Higher Angle



Earth's Surface Land + Water

- SRT p1
Heat
- Land = Low Sp. Heat = Granite = Heats up Faster
 - Water = High Sp. Heat = Water = Heats up Slower

Specific Heat = Ability of a material to heat up + cool down.
Higher Sp. Heat = Slow to change, Needs MORE energy (Joules)
WATER

Lower Sp. Heat = Fast to change, Needs less energy - lead / Granite

1) Uneven heating of Earth's Surface results in Breezes &

