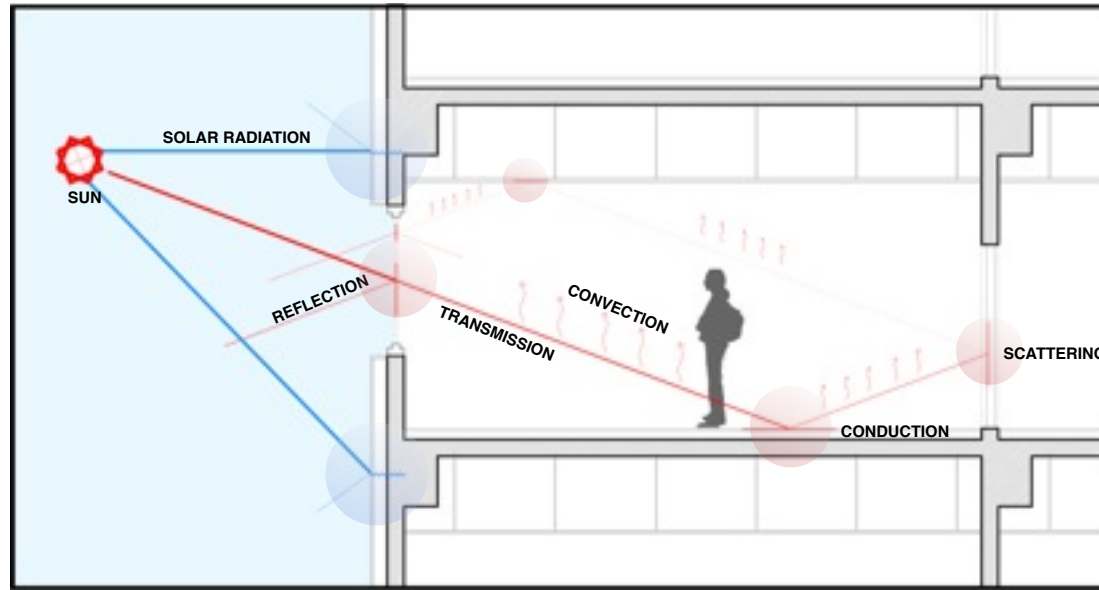


Week 3. Sunlight and Solar Radiation Diagram



Once sunlight hits the glass of window, the variation of light activities occurs.

The reactions of light is dependent on the material where the light hits. When the sunlight reaches to the glass, it starts reflection, transmission, conduction and scattering. When the light hits non-transparent material, they wouldn't reflect but will keep doing the other activities.

After repeating these series of light reaction, some of the light might be remained by keep reflecting but the most of light will disappear and turn into thermal energy. As a result of sunlight through window, the temperature of the room air and building materials will increase.

Other than visible light, Sunlight has thermal radiation. This energy will hits the envelop of the building. Some of them will be reflected but the others will be absorbed to the building and eventually it will make the building warmer then without it.