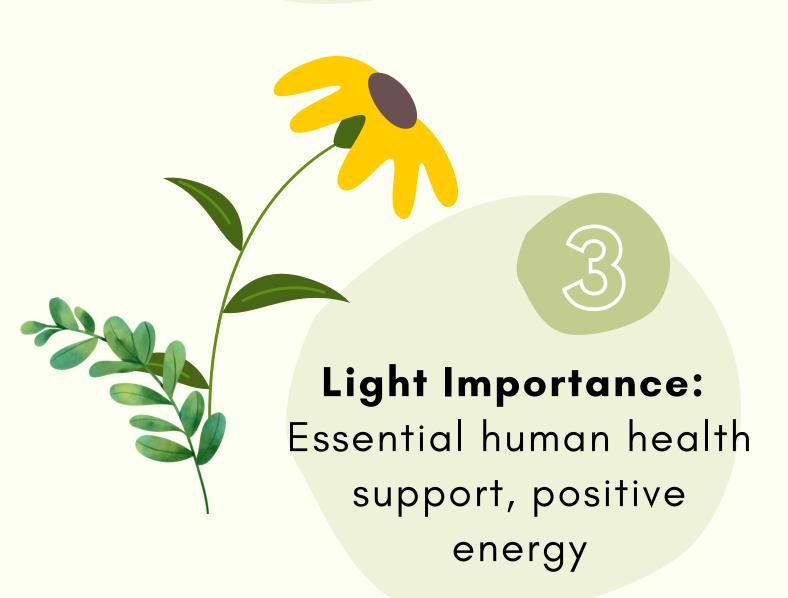
Week 2 Notes

DAYLIGHT + SUNLIGHT

shasha

Natural light:

connect humans w/ environment, associated w/ memories



illuminant D55 noon sunlight 5500K

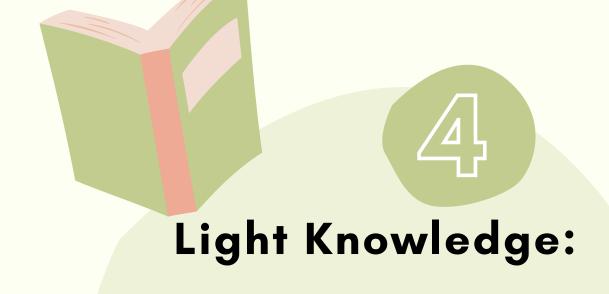
560 nm

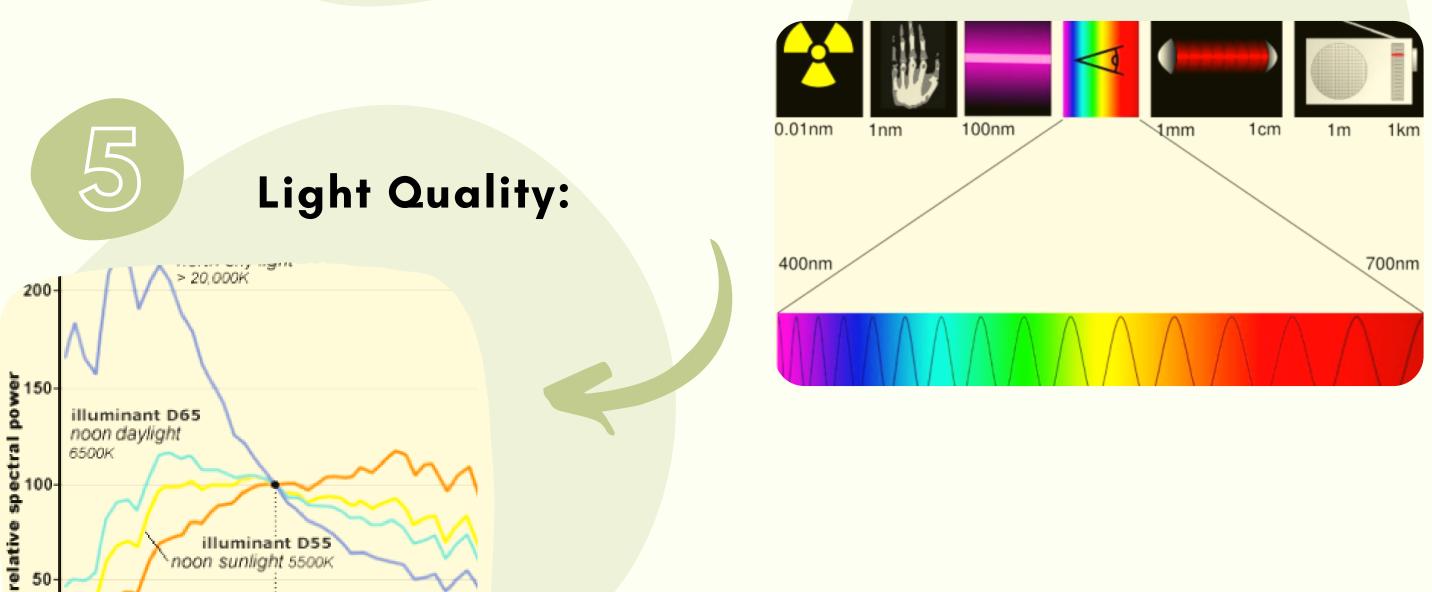
sunset sky + sunlight

Daylight: bright clear light in the day Sunlight: direct

MADE BY

sunshine





Week 2 Notes Cont.

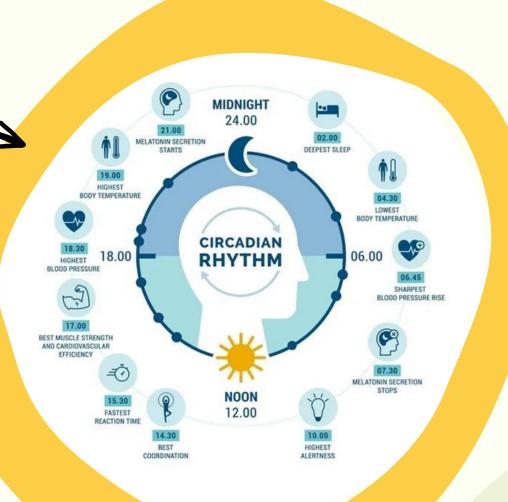
DAYLIGHT + SUNLIGHT

- shasha



Circadian Living:

Circadian rhythms are physical, mental, and behavioral changes that follow a 24-hour cycle



7

Contemporary Design Challenge:



Sustainability:

Daylight is a free, sustainable source of light/energy saving.

Design ideologies and aspirations

Enriching space

Sustainability
Targets,
Health and
Wellbeing +
Technical req.



Lighting Metrics:

Illuminance is measured in Lux (E)

Daylight Factor:

El(Indoor daylight illuminance) X100% EO(Outdoor daylight illuminance)

daylight factor	quality of lighting within space
less than 2%	room looks gloomy, need electric lighting
2%-5%	best balance between daylight & electric lighting
more than 5%	Strong daylit, thermal problems

Measure values in real situations; physical model or real space

Dynamic DF = E Inside (100 Lux) X 100% E Outside **overcast sky** (5000 Lux) = 0.02 (x100) = 2% DF