

THE ELECTROMAGNETIC SPECTRUM

SUMMARY OF USES AND DANGERS



RADIO WAVES

USE: USED FOR LONG-RANGE COMMUNICATIONS

REASON: BECAUSE THEY CAN BE REFLECTED FROM THE EARTH'S ATMOSPHERE

MICROWAVES

USE: SATELLITE COMMUNICATIONS

REASON: BECAUSE MICROWAVES CAN PENETRATE EARTH'S ATMOSPHERE

INFRARED

USE: OPTICAL FIBRE COMMUNICATION

REASON: BECAUSE THEY CAN UNDERGO TOTAL INTERNAL REFLECTION

VISIBLE LIGHT

USE: TAKING PHOTOS AND VIDEOS

REASON: CAMERAS ARE SET UP TO DETECT VISIBLE LIGHT

ULTRAVIOLET

USE: FOR DETECTING SECURITY INK

REASON: BECAUSE IT FLUORESCES WITH ULTRAVIOLET LIGHTING

X-RAYS

USE: TO PHOTOGRAPH BONES

REASON: BECAUSE X-RAYS CAN PENETRATE SOFT TISSUES BUT NOT BONE

GAMMA RAYS

USE: TO STERILISE MEDICAL TOOLS

REASON: BECAUSE GAMMA KILLS BACTERIA

DANGER: HIGH INTENSITY MICROWAVES CAN CAUSE HEATING OF INTERNAL ORGANS

REASON: WATER MOLECULES ABSORB MICROWAVES STRONGLY

DANGER: GAMMA X-RAYS AND HIGH INTENSITY UV CAN HARM CELLS AND CAUSE CANCER

REASON: THEY ARE HIGHLY IONISING DUE TO HAVING A LOT OF ENERGY

Em Waves Test

L Cohen



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