





WAVES PART 2

Dangers of EM waves ->

- Some EM radiation can be harmful to people	- Radiation dose; measure of risk of
- Low frequency waves eg radio do not transfer	harm from body being exposed to
much energy so mostly pass through soft tissue	radiation in sieverts (Sv), not a
without being absorbed	measure of total amount of radiation
- High frequency waves eg UV, X-Rays & gamma	absorbed
rays transfer lots of energy so cause lots of	- Risk depends on total amount of
damage	radiation absorbed and how harmful
- UV radiation damages surface cells -> sunburn,	the type of radiation is
skin ages prematurely, blindness, increased risk of	- Risk can be different for different
skin cancer	parts of the body
- X-rays & gamma rays are ionising -> gene	
mutation or cell destruction, cancer	