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| **Type of radiation** | **Energy** | **Uses/important notes** |
| Gamma | Highest  Lowest | * Can come from radioactive decay of unstable atoms * Used for cancer treatment (radiation) to kill cancer cells |
| x-rays | * Cannot pass through bones, so can be used to check for fractures and examine teeth. Also don’t pass through lead (lead apron protects you) * Can be used to detect faults in manufacturing |
| UV (ultraviolet) | * “black light” is UV light, can be used to make some things glow * UV light causes suntan, sunburn, and skin cancer * Some exposure to UV light is needed for your body to produce vitamin D |
| Visible | * The only part of the spectrum we can see * You see the colour that is reflected. A white object reflects all the colours, a black object absorbs all the colours. |
| Infrared | * Felt as heat * Used in remote controls * Used in night vision cameras |
| Microwaves | * Cause water molecules to vibrate, which heats up food * Used to transmit cell phone signals |
| Radio waves | * Very long wavelength/low energy * Used to transmit radio signals |