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| **Type of radiation** | **Energy** | **Uses/important notes** |
| Gamma | HighestLowest | * Can come from radioactive decay of unstable atoms
* Used for cancer treatment (radiation) to kill cancer cells
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| 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
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| 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
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| 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.
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| Infrared | * Felt as heat
* Used in remote controls
* Used in night vision cameras
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| Microwaves | * Cause water molecules to vibrate, which heats up food
* Used to transmit cell phone signals
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| Radio waves | * Very long wavelength/low energy
* Used to transmit radio signals
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