

Answer all the questions below:



1) Unscramble the following words:

omectrgaelnetic

ronadiati

rseunive

gaamm

2) Make three sentences using the following nine words or phrases:

e.m. waves
UV light
radiation

transfer energy
exposure linked to
gamma and alpha

speed of light
skin cancer
beta

3) Match the word or phrase with the right meaning:

Microwaves



A collection of millions and millions of galaxies

Digital signal



Used in cooking and by mobile phones for communicating

Universe



A signal carrying information using a series of pulses

Answers:

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electromagnetic

radiation

universe

gamma

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complete the sentence

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Place the right word or words to complete the sentence:

 [Click mouse to reveal answer](#)

transmit

refracted

three

distant

galaxy

theory

quality

light

images

- All e.m. waves can be reflected, _____ or absorbed and travel at 300,000 km/s.
- Optic fibres can _____ information by carrying both infra red and visible light rays.
- The _____ of analogue signals decreases, even over relatively short distances.
- There are _____ types of radiation, alpha particles, beta particles and gamma rays.
- A _____ is a collection of millions of stars all rotating in four or five spiral arms.
- Optical telescopes produce _____ of the stars and nearby planets by using light.
- Astronomer Edwin Hubble first suggested that _____ from distant galaxies had a 'red shift.
- The 'big bang' _____ states that the Universe began with an immense explosion.
- Space telescopes like the Hubble are much better at producing images of _____ objects.

complete the sentence

Place the right word or words to complete the sentence:

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- a) All e.m. waves can be reflected, refracted or absorbed and travel at 300,000 km/s.
- b) Optic fibres can transmit information by carrying both infra red and visible light rays.
- c) The quality of analogue signals decreases, even over relatively short distances.
- d) There are three types of radiation, alpha particles, beta particles and gamma rays.
- e) A galaxy is a collection of millions of stars all rotating in four or five spiral arms.
- f) Optical telescopes produce images of the stars and nearby planets by using light.
- g) Astronomer Edwin Hubble first suggested that light from distant galaxies had a 'red shift.
- h) The 'big bang' theory states that the Universe began with an immense explosion.
- i) Space telescopes like the Hubble are much better at producing images of distance objects.