

radiation[ˌreɪdɪ'eɪʃ(ə)n] *n*

- физ.*
 - излучение, радиация, лучеиспускание
atomic radiation - ядерное излучение
electromagnetic radiation - электромагнитное излучение
 - облучение
occupational radiation - профессиональное облучение
radiation tolerance - допустимая доза облучения
to administer radiation - облучать
to expose to radiation - подвергать облучению
 - радиоактивное излучение
radiation damage - а) поражение радиоактивным излучением; б) радиационное повреждение
radiation dosimeter /meter, detection instrument, survey meter/ - (радиационный) дозиметр
radiation monitor - а) дозиметрист; б) дозиметр
radiation dose /dosage/ - доза радиоактивного облучения
radiation hazard - радиоактивная опасность
radiation intensity /strength/ - уровень радиации, интенсивность радиоактивного излучения
radiation safety level - а) допустимая интенсивность радиации; б) допустимая доза облучения
radiation detection - а) обнаружение /регистрация/ радиоактивного излучения; б) дозиметрическая /радиационная/ разведка
- сияние
- радиальное расположение; расхождение из одного центра в виде лучей

radiation

Oxford Advanced Learners Dictionary 8th Ed.

ra·di·a·tion [radiation radiations] *BrE* [ˌreɪdɪ'eɪʃn] ^u *NAmE* [ˌreɪdɪ'eɪʃn] ^u **noun**

- uncountable, countable** powerful and very dangerous ↑rays that are sent out from ↑radioactive substances
 - high levels/doses of radiation that damage cells
 - the link between exposure to radiation and childhood cancer
 - a radiation leak from a nuclear power station
 - radiation sickness
 - the radiations emitted by radium
- uncountable** heat, energy, etc. that is sent out in the form of ↑rays
 - ultraviolet radiation
 - electromagnetic radiation from power lines
- (also **radiation therapy**) **uncountable** the treatment of cancer and other diseases using radiation
compare ↑chemotherapy, ↑radiotherapy

Word Origin:

late Middle English (denoting the action of sending out rays of light): from Latin radiatio(n-), from radiare 'emit rays', from radius 'ray, spoke'.

Example Bank:

- Nuclear testing has exposed millions of people to radiation.
- Ozone protects the Earth from harmful ultraviolet radiation.
- Patients receive high doses of radiation during cancer treatment.
- The counter showed high levels of radiation.
- The ozone layer absorbs solar radiation.
- fluctuations in the cosmic microwave background radiation
- radiation from computer screens
- radiation leaking from nuclear power stations
- the threat of radiation leaks

radiation

Longman DOCE 5th Ed. (En-En)

ra·di·a·tion /ˌreɪdɪ'eɪʃən/ *BrE* ^u *AmE* ^u **noun** [uncountable]

- a form of energy that comes especially from ↑nuclear reactions, which in large amounts is very harmful to living things:
 - An accident at the power station could result in large amounts of radiation being released.
 - a lethal dose of radiation
- energy in the form of heat or light that is sent out as waves that you cannot see:
 - Sun creams work by blocking harmful ultraviolet radiation.
 - • •

COLLOCATIONS (for Meanings 1 & 2)■ **ADJECTIVES/NOUN + radiation**

- nuclear radiation** Nuclear radiation has a devastating effect on living cells.
- solar radiation** (=from the sun) How can solar radiation be trapped and used?
- cosmic radiation** (=from space) The spacecraft is fitted with a shield to block cosmic radiation.
- ultraviolet/infra-red radiation** (=from the light produced by the sun) Ultraviolet radiation damages DNA in plants.
- gamma/alpha/beta radiation** *technical* (=radiation given off by the atomic matter of gamma, alpha, or beta rays) The conventional treatment for cancer is to bombard the tumour with gamma radiation.
- background radiation** (=the radiation normally present in the environment) In some parts of the world, background radiation

is very high.

■ radiation + NOUN

- **a radiation leak** A radiation leak occurred at a Russian nuclear power station.
- **radiation levels** The background radiation level was normal.

■ verbs

- **give off radiation** (*also emit radiation formal*) (=produce it) The lamps emit ultra-violet radiation.
- **absorb radiation** It is thought that a black hole absorbs any solar radiation that reaches it.
- **be exposed to radiation** (=be put in a situation where you are not protected from harmful radiation, especially nuclear radiation) The servicemen claimed they were illegally exposed to radiation during atomic tests.

■ phrases

- **a dose of radiation** (=an amount of radiation that someone experiences) Workers at the site received high doses of radiation.
- **exposure to radiation** (=when someone is near to a substance that gives off harmful radiation, especially nuclear radiation) One cause of leukaemia is exposure to radiation.

radiation

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