

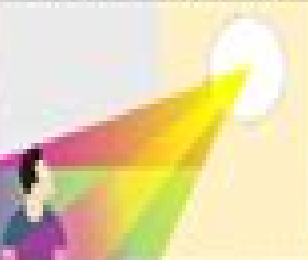

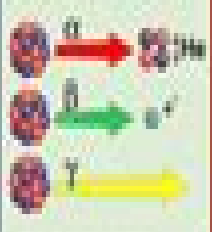


RADIATION UNITS OF MEASUREMENT

Radiation Classification
Measurement Category
Measurement Method
Measurement Type

ACTIVITY		EXPOSURE		DOSE	
DIRECT READING		CALCULATED VALUES			
DETECTOR	ACTIVITY	EXPOSURE	EXPOSURE RATE	ABSORBED DOSE	EQUIVALENT DOSE
					
Radiation interactions detected by a radiation detector and its associated counter	Amount of ionizing radiation released by unstable radioactive source through its decay process	The amount of energy contained in a cubic centimeter of air at standard temperature and pressure	The rate at which the ionizing energy is being delivered to a specific location	The accumulated dose absorbed to any material	The absorbed dose adjusted for the type of radiation
Each event = 1 count		$2.58 \times 10^{-4} \text{ C/kg}$		Exposure rate multiplied by exposure duration	alpha's $\times 1.25$ beta's $\times 1.0$ gamma's $\times 1.0$ neutrons $\times 1.25$
Counts/second (cps)	Disintegrations/second (dps)	Röntgen R	Röntgens/Year (R/Y)	Radiation Absorbed Dose (RAD)	Radiation Equivalent Dose (REM)
Counts/minute (cpm)	Disintegrations/minute (dpm)				
Counts/second (cps)	$\text{Cpm} / 60 = \text{Cps}$ with 60 dpm	C/kg	Microsieverts/Year (µSv/Y)	Gray (Gy)	Sievert (Sv)
Counts/minute (cpm)	Bequerels (Bq) = 1 dps				
	Rutherford (Rd) = 1.0×10^6 dps				

irradiative dose

EFFECTIVE DOSE



The equivalent dose adjusted for the specific tissue type

Tissue	Weighting Factor	Sum of Tissue Weighting Factors
Bone marrow (red), colon, lung, stomach, breast, remaining tissues	0.12	0.12
ovaries	0.08	0.08
bladder, esophagus, liver, thyroid	0.04	0.16
Bone surface, brain, salivary glands, skin	0.01	0.04
Total		1

Measurement units: REM and Sieverts (Sv)

Measurement Conversions:
1 Röntgen for 1 hour = 1 RAD of Absorbed Dose
1 R = 1 RAD = 1 REM for Gamma and X-Ray Energies
1 Sievert = 100 Röntgens
1 Sievert = 100 REMs
1 Gray = 100 Rads

Notes: Radiation counters like Geiger counters will assume conditions and apply calculations to the detected events to report activity, exposure rate, and absorbed dose.

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