


1.

chemicals and ionizing energy that cause changes in DNA

- can cause tumors
- mutations in sex cells can be passed on to offspring




2.

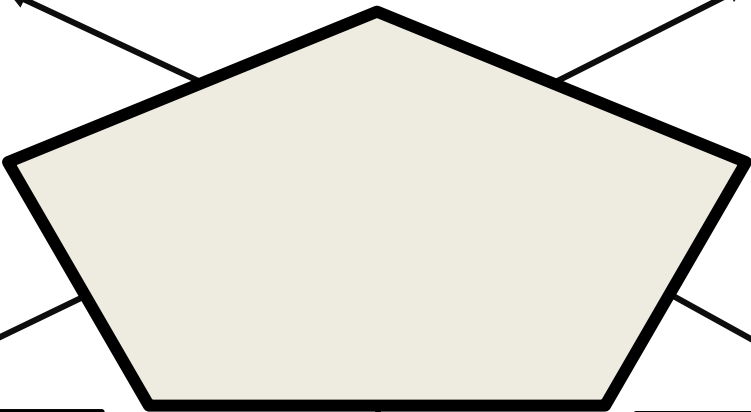
chemicals, radiation, or viruses that cause cancer

- cells multiply and metastasize (break off from tumor and start new tumors elsewhere in body)

EXAMPLES: arsenic, hexavalent chromium, tobacco, alcohol, benzene, formaldehyde, asbestos



a lot of crossovers




3.

destroy nerve tissue

- impaired brain function and nervous system disorders
- kidney/liver dysfunction
- reproductive dysfunction

EXAMPLES: DDT, PCBs, dioxins, mercury, lead



4.

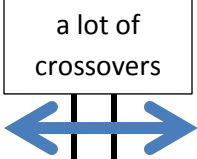
chemicals, radiation, or viruses that affect embryotic development and cause birth defects

EXAMPLES: PCBs, mercury, lead, alcohol, medications

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thalidomide (sedative)

- never approved by FDA
- caused severe birth defects



5.

synthetic chemicals that interfere with naturally produced hormones that control how an organism develops and functions

EXAMPLES: PCBs, BPAs, dioxins, herbicides, DDT & other pesticides