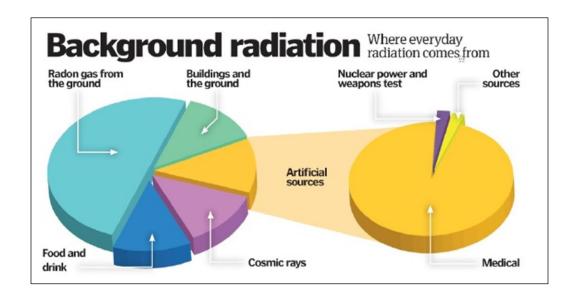
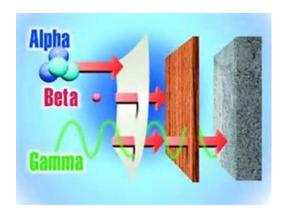
# WE LIVE IN A NUCLEAR WORLD RADIOACTIVE MATERIALS PERMEATE OUR DAILY LIVES

#### **COMMON RADIOISOTOPES & USES**

Courtesy of Idaho State Environmental Health





Alphas are stopped by a piece of paper or distance.

Betas are stopped by wood or aluminum etc.

Gammas are stopped by lead.

#### **Beta Particles**

Beta particles are subatomic particles ejected from the nucleus of some radioactive atoms. They are equivalent to electrons. The difference is that beta particles originate in the nucleus and electrons originate outside the nucleus.

There are many beta emitters: >tritium >cobalt-60 >strontium-90 >technetium-99 ≽iodine-129 ≽iodine-131

>cesium-137

### **COSMIC RAYS ARE GAMMAS**

**RADON IS AN ALPHA BUT THE RISK IS INHALATION WHICH HAS** PROVEN TO BE A LEADING CAUSE **OF LUNG CANCER** 









## **Major Uses of Radioisotopes**

