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Instructor: 2003 Science Teacher Workshop participant

School District: Diocese of Metuchen

Lesson Title: Song Review

Grades: 5,6

Overview: After introducing the topics of alpha, beta, and gamma ray and discussing it for 2-3 days, we sing this song.

Objectives: To review concepts learned in this section.

Materials and Resources: Student book and handouts.

Song: sung to "Old Mac Donald"

I am an alpha particle
2 neutrons and 2 protons
I travel fast through midair
Mass, such as paper can stop me
A danger to all if inhaled
A hazard if ingested
With a sniff, sniff here
And a swallow, swallow there
Here a sniff, there a swallow
Everywhere a sniff, swallow
Internal tissues are not safe
Especially your lungs

You are a beta particle
Electrons, moving fast
A heavier mass is needed to stop you
Such as plastic or a light metal
You too are dangerous of breathed in
E-, E-, E-
With a sniff, sniff here
And a swallow, swallow there
Here a sniff, there a swallow
Everywhere a sniff, swallow
Internal tissues are not safe
Especially your lungs

He is a gamma ray indeed
Electromagnetic, much like x-rays
He may pass through the human body
Discharges causes ionization
A danger if exposed often
To any organ in the body
No paper here, no plastic there
Here some concrete, there some lead
Here some wood, there some soil only masses that are dense
Can stop all my energy