

**Edmore Public School**  
**706 Main St, Edmore, ND 58330**

**Physical Science Lesson Plan**

**Dates:**

April 15 - 19, 2024

**Time and Period:**

10:30 - 11:22 AM, Third Period

**Performance Standard:**

**HS-PS3-1**

Create a mathematical model to calculate the change in the energy of one component in a system when the change in energy of the other component(s) and energy flows in and out of the system are known.

**HS-PS3-2**

Develop and use models to illustrate that energy is associated with motion and relative position of particles (objects).

**HS-PS3-3**

Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy

**Monday, April 15**

<b>Topic</b>	What is Radioactivity? pp. 327 - 330
<b>Objectives</b>	Explain what happens to an element as it undergoes radioactive decay.
<b>Bell Ringer</b>	Define <i>radioactive decay</i>
<b>Procedure / Instructional Delivery</b>	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
<b>Assessment</b>	What is Radioactivity? pp. 327 - 330

**Tuesday, April 16**

<b>Topic</b>	Radioactive Decay Rates, pp. 333 - 336
<b>Objectives</b>	Predict atomic nuclei as a product of radioactive decay.
<b>Bell Ringer</b>	Define <i>half-life</i>
<b>Procedure / Instructional Delivery</b>	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
<b>Assessment</b>	Radioactive Decay Rates, pp. 333 - 336

Wednesday, April 17	
<b>Topic</b>	Nuclear Fusion and Fission, pp. 337 - 341
<b>Objectives</b>	Predict what happens when the nuclei of small atoms are joined.
<b>Bell Ringer</b>	Differentiate between <i>nuclear fusion and nuclear fission</i>
<b>Procedure / Instructional Delivery</b>	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
<b>Assessment</b>	Nuclear Fusion and Fission, pp. 337 - 341

Thursday, April 18	
<b>Topic</b>	Nuclear Radiation Today, pp. 344 - 351
<b>Objectives</b>	Identify examples of benefits and risks from nuclear radiation.
<b>Bell Ringer</b>	What are two benefits and two risks associated with nuclear radiation?
<b>Procedure / Instructional Delivery</b>	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
<b>Assessment</b>	Nuclear Radiation Today, pp. 344 - 351

Friday, April 19	
<b>Topic</b>	Simulating Nuclear Radiation, pp. 352 - 353
<b>Objectives</b>	Simulate the decay of radioactive isotopes by throwing a dice, and observe the results.
<b>Bell Ringer</b>	Give two examples of radioactive isotopes found on Earth.
<b>Procedure / Instructional Delivery</b>	Guided Practice, Interactive Discussion, Hands - on / Laboratory Activity
<b>Assessment</b>	Simulating Nuclear Radiation, pp. 352 - 353