



Edmore Public School
706 Main St, Edmore, ND 58330

**Physical Science Lesson Plans for
May 15 - 19, 2023
3rd Hour, 10:30 – 11:22 AM**

| | Monday (May 15) | Tuesday (May 16) | Wednesday (May 17) | Thursday (May 18) | Friday (May 19) |
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| Performance Standards | All standards covered. | HS-PS1-8 Develop models to illustrate the changes in the composition of the nucleus of the atom and the energy released during the processes of fission, fusion, and radioactive decay. | HS-PS1-8 Develop models to illustrate the changes in the composition of the nucleus of the atom and the energy released during the processes of fission, fusion, and radioactive decay. | HS-PS1-8 Develop models to illustrate the changes in the composition of the nucleus of the atom and the energy released during the processes of fission, fusion, and radioactive decay. | HS-PS1-8 Develop models to illustrate the changes in the composition of the nucleus of the atom and the energy released during the processes of fission, fusion, and radioactive decay. |
| Topic | Final Test | Radioisotopes in Industry | Half-Life | Nuclear Reaction | Nuclear Reaction |
| Objectives | <ul style="list-style-type: none"> • assess proficiency of the topics covered for the second semester | <ul style="list-style-type: none"> • understand how radioisotopes can be used in industry for gauging and measuring. Students will observe and record data on the demonstration. | <ul style="list-style-type: none"> • model radioactive decay by using the scientific thought process of creating a hypothesis, then testing it through inference | <ul style="list-style-type: none"> • Learn the concepts of nuclear fission and fusion and investigate how these reactions are used to generate energy | <ul style="list-style-type: none"> • Learn the concepts of nuclear fission and fusion and investigate how these reactions are used to generate energy |
| Bellringer | Define half-life | Define nuclear decay | Define nuclear fusion | Define nuclear fission | Vocab quiz |
| Procedure/ Instructional Delivery | <ul style="list-style-type: none"> ○ Final Test | <ul style="list-style-type: none"> ○ Student activity: radioisotopes in industry ○ Discussion | <ul style="list-style-type: none"> ○ Student activity: half-life of M&Ms, pennies, and licorice | <ul style="list-style-type: none"> ○ Student activity: modeling nuclear fission ○ Case study: nuclear fusion and fission as source of energy | <ul style="list-style-type: none"> ○ Student project: create a printer paper-size poster to support/go against the use of nuclear energy |
| Assessment | Final Test | Exit ticket | worksheet | worksheet | worksheet |
| Remarks | | | | | |

Prepared by:

Angelito M. Rivera
Science Teacher