

School District of Loyal

Forestry and Wildlife

Grade: 9-12

Student Learning Targets



| Class: Forestry and Wildlife | | |
|---|---|--|
| Students who demonstrate understanding can: | | |
| WI State Standards | Standard: | Student Learning Targets: |
| AFNR.ENR.2 | Students will apply ecological concepts for sustainable natural resources management and service systems. | <p>Students will be able to:</p> <ul style="list-style-type: none"> ● Explain how ecosystems function and why biodiversity is important. ● Describe how energy flows and nutrients cycle through an ecosystem. ● Identify ways human activities affect natural resources and ecosystems. |
| AFNR.ENR.5 | Students will analyze and manage hydrology resources, quality, and usage. | <p>Students will be able to:</p> <ul style="list-style-type: none"> ● Identify common sources of water pollution and describe their effects on ecosystems and humans ● Define what a wetland is and describe different types of wetlands (marshes, swamps, bogs, fens) ● Explain how wetlands filter water and improve water quality. ● Describe how wetlands control flooding and prevent erosion. |
| AFNR.ENR.6 | Students will apply scientific and sustainable practices to forest resources. | <p>Students will be able to:</p> <ul style="list-style-type: none"> ● Identify native tree species and describe their ecological and economic importance. ● Identify trees using a dichotomous key. ● Explain the difference between sustainable and unsustainable forestry practices. |

| | | |
|------------|--|--|
| | | <ul style="list-style-type: none"> ● Explain forest succession and how it influences forest management decisions. |
| AFNR.ENR.7 | Students will apply scientific and sustainable practices to fish and wildlife management and production. | <p>Students will be able to:</p> <ul style="list-style-type: none"> ● Explain the basic needs and habitat requirements of fish and wildlife species. ● Identify common native wildlife and fish species and describe their ecological roles. ● Demonstrate responsible and ethical behavior when working with fish and wildlife resources. ● Describe methods used to manage wildlife populations, such as habitat improvement, harvest regulation, and restocking. |
| AFNR.ENR.8 | Students will apply knowledge of the environment and natural resources to sustainable harvest and processing of natural resources. | <p>Students will be able to:</p> <ul style="list-style-type: none"> ● Identify renewable and nonrenewable natural resources and explain their differences. ● Explain the importance of managing natural resources to balance human needs and ecosystem health. |