AE.FWM. FORESTRY & WILDLIFE MANAGEMENT

<u>Essential Discipline Goals</u>

- Develop positive attitudes toward forestry and wildlife and its relevance to the individual, society, and the environment.
- Develop and apply, through agricultural experiences and examples, creative thinking and problem solving abilities.
  - Acquire and apply knowledge of the concepts, theories, principles, and laws of science to interpret the world of agriculture.
- Utilize forestry and wildlife experiences in the planning and fulfillment of personal aspirations and career decisions.
- Develop a basic knowledge of the language used to interpret the fundamentals and applications of agriscience.

<u>**Standard**</u>   <u>**Indicators:**</u>
AE.FWM.10 Demonstrate a knowledge of the importance of forests to humanity
    AE.FWM.10.01 Identify the major forest regions of the United States 1.5.7, 1.5.8
    AE.FWM.10.02 Identify the importance of forests to wildlife and humanity 3.5.4, 1.2.7
    AE.FWM.10.03 List the recreational uses of forests 1.5.7
AE.FWM.20 Demonstrate a knowledge of tree and forest terminology
    AE.FWM.20.01 Label the parts of a tree 3.2.1
    AE.FWM.20.02 Identify important commercial trees 1.5.7
AE.FWM.30 Identify and demonstrate modern silvicultural practices
    AE.FWM.30.01 Identify modern management practices used in forests 3.2.2, 1.1.1, 1.4.2
    AE.FWM.30.02 List the steps used in woodland establishment 1.5.6
    AE.FWM.30.03 Identify modern tree stand improvement practices 1.1.1
AE.FWM.40 Identify forest harvesting techniques
    AE.FWM.40.01 Demonstrate the use of tree measuring devices 1.2.5, 1.3.4
    AE.FWM.40.02 List timber harvesting practices
AE.FWM.50 Demonstrate an understanding of the relationship between forests and the environment.
    AE.FWM.50.01 Define the term "ecosystem" 3.5.1, 1.5.2
    AE.FWM.50.02 Identify how forests affect: 3.5.1, 3.5.2
        Climate
        Water supplies
        Soil
AE.FWM.60 Identify the values of wildlife to humanity
    AE.FWM.60.01 Define the term "wildlife" 1.5.2
    AE.FWM.60.02 Identify the classes of wildlife 1.5.7
    AE.FWM.60.03 Identify the major wildlife (birds and mammals) in Maryland 1.5.7
    AE.FWM.60.04 Demonstrate a knowledge of the laws governing wildlife 3.6.1, 3.6.2
AE.FWM.70 Employ the methods of modern wildlife management practices and principles
    AE.FWM.70.01 Define "wildlife management" 1.5.2
    AE.FWM.70.02 Outline the history of wildlife management in the United States 3.5.3
    AE.FWM.70.03 Explain the necessity of wildlife management 3.5.1
    AE.FWM.70.04 Identify the types of wildlife habitat improvement practices 1.1.1
    AE.FWM.70.05 Identify the factors that affect wildlife populations including: 3.5.1, 3.5.2, 3.5.3
        Carrying capacity
        Population dynamics
        Wildlife mortality
        Hunting
    AE.FWM.70.06 Identify the major wildlife refuges in Maryland and the role they play in wildlife management 1.1.1