

Monday 08/21/2023

Animal Science

Lesson / Instruction

Brief history of animals

Standards

AS.02.01.03.a Distinguish between animal husbandry practices that promote animal welfare and those that do not.

AS.01 Analyze historic and current trends impacting the animal systems industry.

AS.01.01 Evaluate the development and implications of animal origin, domestication and distribution on production practices and the environment.

AS.01.01.01.a Identify and summarize the origin, significance, distribution and domestication of different animal species.

AS.01.01.01.b Evaluate and describe characteristics of animals that developed in response to the animal's environment and led to their domestication.

AS.01.01.01.c Evaluate the implications of animal adaptations on production practices and the environment.

Objectives / Essential Question

breifly describe the history of animals on the earth, list the importance time periods in the evolution of animals, describe the theories of how animals became domesticated, describe the importance of the small animal industry, descirbe how organisms are classified, compare and contrast the Linnaeus classification system and the Woese system

Introduction to Ag

Lesson / Instruction

Range Plant ID and classification

Standards

NRS.01.02.02.b Identify herbaceous plants.

NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.

NRS.01.02.03.b Identify wildlife species.

NRS.02.04.04.a Identify characteristics of healthy rangeland.

NRS.02.04.04.b Identify methods of rangeland improvement.

NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.

NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.
 NRS.02.06.07.a Define invasive species.
 NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.
 NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.

PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.

PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.

Homework / Evidence of Learning

Chapter 1 in PDF handout - notes Quiz over chapter 1 ID 10 grasses by Friday

Materials / Resources / Technology

PDF Range Judging Handbook Paper Copy's Powerpoints Google Classroom material

Plant Science/Hort

Lesson / Instruction

Range Plant ID and classification

Standards

NRS.01.02.02.b Identify herbaceous plants.

NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.

NRS.01.02.03.b Identify wildlife species.

NRS.02.04.04.a Identify characteristics of healthy rangeland.

NRS.02.04.04.b Identify methods of rangeland improvement.

NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.

NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.

NRS.02.06.07.a Define invasive species.

NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.

NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.

PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.

PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.

Homework / Evidence of Learning

Chapter 1 in PDF handout - notes Quiz over chapter 1 ID 10 grasses by Friday

Materials / Resources / Technology

PDF Range Judging Handbook Paper Copy's Powerpoints Google Classroom material

Science 7

Introduction to Science

Lesson / Instruction

Section 1: The nature of science Key terms: Science, technology, law, theory

- main branches of natural science
- -learn about confirming results by designing and repeating experiments -Scientific theories and laws are discussed

Standards

- UCP1 Systems, order, and organization
- UCP2 Evidence, models, and explanation
- UCP3 Change, consistency, and measurements
- SAI1 Abilities to do scientific inquiry
- SAI2 Understanding about scientific inquiry
- ST2 Understanding about science and technology
- HNS1 Science as a human endeavor

HNS2 Nature of science

HNS3 History of science

Objectives / Essential Question

How do scientists explore the world, how are the many types of science organized, what are scientific theories and how are they differnt from scientific laws?

Homework / Evidence of Learning

Binder organization: Begin to organize your science binder. Have finished by the end of this week.

Welding I

Lesson / Instruction

Welding Safety

Standards

PST.02.02.02.c Adjust equipment, machinery and power units for safe and efficient operation in AFNR power, structural and technical systems.

PST.04.04.01.a Compare and contrast direct and alternating current.

PST.01.02.02.a Identify the tools, machines and equipment needed to construct and/or fabricate a project in AFNR.

PST.01.02.02.c Devise and document processes to safely implement and evaluate the safe use of AFNR related tools, machinery and equipment.

PST.01.02.03.c Conduct a safety inspection of tools, machines and equipment used in different AFNR related mechanical systems.

PST.01.03 Apply physical science principles to metal fabrication using a variety of welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.a Compare and contrast the principles and procedures of different welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.b Analyze the situation and determine the best welding and cutting process to be used in metal fabrication.

PST.01.03.01.c Evaluate the quality of metal fabrication procedures (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.02.a Compare and contrast the properties of different metals used in AFNR power, structural and technical systems (e.g., malleability, conductivity, optical properties, chemical composition, etc.).



PST.01.03.02.b Assess and select the proper electrode for use in various shielded metal arc welding situations.

PST.01.03.02.c Construct and/or repair metal structures and equipment using metal fabrication procedures.

PST.02 Operate and maintain AFNR mechanical equipment and power systems.

PST.02.02 Operate machinery and equipment while observing all safety precautions in AFNR settings.

PST.02.02.01.a Research and summarize the use of equipment, machinery and power units for AFNR power, structural and technical systems.

PST.02.02.01.c Perform pre-operation inspections, start-up & shut-down procedures on equipment, machinery and power units as specified in owner's manuals.

PST.02.02.02.b Apply safety principles and applicable regulations to operate equipment, machinery and power units used in AFNR power, structural and technical systems.

PST.04.02.01.b Analyze a project plan to prepare a bill of materials and an estimate of material costs.

PST.04.02.01.c Create a project cost estimate, including materials, labor and management for an AFNR structure.

Objectives / Essential Question

1. describe burns. 2. describe the dangers of three types of light pose to welding and how to protect yourself. 3. explain how to avoid eye and ear injuries. 4. select the correct eye and face protection. 5.describe respiratory hazards in the shop. 6. explain the purpose of MSDS sheets. 7. describe work clothing. 8.. describe the proper way to handle, store and use cylinders. 9. Discuss the danger of fire. 10. explain planned maintenance. 11. describe common hand tools. 12. discuss the types of metal

Homework / Evidence of Learning

Chapter 2 review questions - due Wed. Chapter 2 study guide - Due Thursday Safety Test - Friday

Instructional Strategies

MS.SN.3 Use teacher-prepared notes.

MS.SN Summarizing and Note Taking

MS.CQ.1 Pause briefly after asking a question. Doing so will increase the depth of your students' answers.

MS.SE.4 Keep feedback timely and specific.

MS.SE.5 Encourage students to lead feedback sessions.



Tuesday 08/22/2023

Animal Science

Lesson / Instruction

Brief history of animals

Standards

AS.02.01.03.a Distinguish between animal husbandry practices that promote animal welfare and those that do not.

AS.01 Analyze historic and current trends impacting the animal systems industry.

AS.01.01 Evaluate the development and implications of animal origin, domestication and distribution on production practices and the environment.

AS.01.01.01.a Identify and summarize the origin, significance, distribution and domestication of different animal species.

AS.01.01.01.b Evaluate and describe characteristics of animals that developed in response to the animal's environment and led to their domestication.

AS.01.01.01.c Evaluate the implications of animal adaptations on production practices and the environment.

Objectives / Essential Question

breifly describe the history of animals on the earth, list the importance time periods in the evolution of animals, describe the theories of how animals became domesticated, describe the importance of the small animal industry, descirbe how organisms are classified, compare and contrast the Linnaeus classification system and the Woese system

Introduction to Ag

Lesson / Instruction

Range Plant ID and classification

Standards

NRS.01.02.02.b Identify herbaceous plants.

NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.

NRS.01.02.03.b Identify wildlife species.

NRS.02.04.04.a Identify characteristics of healthy rangeland.

NRS.02.04.04.b Identify methods of rangeland improvement.

NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.

NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes. NRS.02.06.07.a Define invasive species.

NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.

NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.

PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.

PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.

Homework / Evidence of Learning

Chapter 1 in PDF handout - notes Quiz over chapter 1 ID 10 grasses by Friday

Materials / Resources / Technology

PDF Range Judging Handbook Paper Copy's Powerpoints Google Classroom material

Plant Science/Hort

Lesson / Instruction

Range Plant ID and classification

Standards

NRS.01.02.02.b Identify herbaceous plants.

NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.

NRS.01.02.03.b Identify wildlife species.

NRS.02.04.04.a Identify characteristics of healthy rangeland.

NRS.02.04.04.b Identify methods of rangeland improvement.

NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.

NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.

🔡 Planbook



NRS.02.06.07.a Define invasive species.

NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.

NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.

PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.

PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.

Homework / Evidence of Learning

Chapter 1 in PDF handout - notes Quiz over chapter 1 ID 10 grasses by Friday

Materials / Resources / Technology

PDF Range Judging Handbook Paper Copy's Powerpoints Google Classroom material

Science 7

Lesson / Instruction

Bellringer: Google Classroom

Review "how science takes place" assign the spider map for homework The Branches of Science (text pages 7-8 teacher copy)

Standards

- UCP1 Systems, order, and organization
- UCP2 Evidence, models, and explanation
- UCP3 Change, consistency, and measurements
- SAI1 Abilities to do scientific inquiry
- SAI2 Understanding about scientific inquiry
- ST2 Understanding about science and technology
- HNS1 Science as a human endeavor
- HNS2 Nature of science
- HNS3 History of science

Objectives / Essential Question

How do scientists explore the world, how are the many types of science organized, what are scientific theories and how are they differnt from scientific laws?

Homework / Evidence of Learning

Spider Map: Create a spider map that explains the steps that happen when science takes place. Use the blue heads in the section as the branches of your map (see teacher example on board) Due Wednesday, 8/18

Welding I

Lesson / Instruction

Welding Safety

Standards

PST.02.02.02.c Adjust equipment, machinery and power units for safe and efficient operation in AFNR power, structural and technical systems.

PST.04.04.01.a Compare and contrast direct and alternating current.

PST.01.02.02.a Identify the tools, machines and equipment needed to construct and/or fabricate a project in AFNR.

PST.01.02.02.c Devise and document processes to safely implement and evaluate the safe use of AFNR related tools, machinery and equipment.

PST.01.02.03.c Conduct a safety inspection of tools, machines and equipment used in different AFNR related mechanical systems.

PST.01.03 Apply physical science principles to metal fabrication using a variety of welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.a Compare and contrast the principles and procedures of different welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.b Analyze the situation and determine the best welding and cutting process to be used in metal fabrication.

PST.01.03.01.c Evaluate the quality of metal fabrication procedures (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.02.a Compare and contrast the properties of different metals used in AFNR power, structural and technical systems (e.g., malleability, conductivity, optical properties, chemical composition, etc.).

PST.01.03.02.b Assess and select the proper electrode for use in various shielded metal arc welding situations.



PST.01.03.02.c Construct and/or repair metal structures and equipment using metal fabrication procedures.

PST.02 Operate and maintain AFNR mechanical equipment and power systems.

PST.02.02 Operate machinery and equipment while observing all safety precautions in AFNR settings.

PST.02.02.01.a Research and summarize the use of equipment, machinery and power units for AFNR power, structural and technical systems.

PST.02.02.01.c Perform pre-operation inspections, start-up & shut-down procedures on equipment, machinery and power units as specified in owner's manuals.

PST.02.02.02.b Apply safety principles and applicable regulations to operate equipment, machinery and power units used in AFNR power, structural and technical systems.

PST.04.02.01.b Analyze a project plan to prepare a bill of materials and an estimate of material costs.

PST.04.02.01.c Create a project cost estimate, including materials, labor and management for an AFNR structure.

Objectives / Essential Question

1. describe burns. 2. describe the dangers of three types of light pose to welding and how to protect yourself. 3. explain how to avoid eye and ear injuries. 4. select the correct eye and face protection. 5.describe respiratory hazards in the shop. 6. explain the purpose of MSDS sheets. 7. describe work clothing. 8.. describe the proper way to handle, store and use cylinders. 9. Discuss the danger of fire. 10. explain planned maintenance. 11. describe common hand tools. 12. discuss the types of metal

Homework / Evidence of Learning

Chapter 2 review questions - due Wed. Chapter 2 study guide - Due Thursday Safety Test - Friday

Instructional Strategies

MS.SE.4 Keep feedback timely and specific.

MS.SE.5 Encourage students to lead feedback sessions.

MS.SN.3 Use teacher-prepared notes.

MS.SN Summarizing and Note Taking

MS.CQ.1 Pause briefly after asking a question. Doing so will increase the depth of your students' answers.



Wednesday 08/23/2023

Animal Science

Lesson / Instruction

Brief history of animals

Standards

AS.02.01.03.a Distinguish between animal husbandry practices that promote animal welfare and those that do not.

AS.01 Analyze historic and current trends impacting the animal systems industry.

AS.01.01 Evaluate the development and implications of animal origin, domestication and distribution on production practices and the environment.

AS.01.01.01.a Identify and summarize the origin, significance, distribution and domestication of different animal species.

AS.01.01.01.b Evaluate and describe characteristics of animals that developed in response to the animal's environment and led to their domestication.

AS.01.01.01.c Evaluate the implications of animal adaptations on production practices and the environment.

Objectives / Essential Question

breifly describe the history of animals on the earth, list the importance time periods in the evolution of animals, describe the theories of how animals became domesticated, describe the importance of the small animal industry, descirbe how organisms are classified, compare and contrast the Linnaeus classification system and the Woese system

Introduction to Ag

Lesson / Instruction

Range Plant ID and classification

Standards

NRS.01.02.02.b Identify herbaceous plants.

NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.

NRS.01.02.03.b Identify wildlife species.

NRS.02.04.04.a Identify characteristics of healthy rangeland.

NRS.02.04.04.b Identify methods of rangeland improvement.

NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.

NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.
 NRS.02.06.07.a Define invasive species.
 NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.
 NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.

PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.

PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.

Homework / Evidence of Learning

Chapter 1 in PDF handout - notes Quiz over chapter 1 ID 10 grasses by Friday

Materials / Resources / Technology

PDF Range Judging Handbook Paper Copy's Powerpoints Google Classroom material

Plant Science/Hort

Lesson / Instruction

Range Plant ID and classification

Standards

NRS.01.02.02.b Identify herbaceous plants.

NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.

NRS.01.02.03.b Identify wildlife species.

NRS.02.04.04.a Identify characteristics of healthy rangeland.

NRS.02.04.04.b Identify methods of rangeland improvement.

NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.

NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.



NRS.02.06.07.a Define invasive species.

NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.

NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.

PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.

PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.

Homework / Evidence of Learning

Chapter 1 in PDF handout - notes Quiz over chapter 1 ID 10 grasses by Friday

Materials / Resources / Technology

PDF Range Judging Handbook Paper Copy's Powerpoints Google Classroom material

Science 7

Lesson / Instruction

Bellringer: What are the three banches of science? Answer: Biological, Physical, Earth

Hand in Spider diagram assignment

In the "Black and Green" Everyting I Need to Know to Ace Science Study Guide - students and teacher will go through chapter 1 pages 2-4.

In class assignement to start on: Physical Properties: Qualitative or Quantitative. STudents will complete this assingment during class today and Thursday.

Standards

UCP1 Systems, order, and organization

UCP2 Evidence, models, and explanation

UCP3 Change, consistency, and measurements

SAI1 Abilities to do scientific inquiry

SAI2 Understanding about scientific inquiry

HNS1 Science as a human endeavor

HNS2 Nature of science

HNS3 History of science

Objectives / Essential Question

Explore more on the branches of science and how they fit together (study guide book)

Homework / Evidence of Learning

Physical Properties: Qualitative or Quantitative. STudents will complete this assingment during class today and Thursday.

Welding I

Lesson / Instruction

Welding Safety

Standards

PST.02.02.02.c Adjust equipment, machinery and power units for safe and efficient operation in AFNR power, structural and technical systems.

PST.04.04.01.a Compare and contrast direct and alternating current.

PST.01.02.02.a Identify the tools, machines and equipment needed to construct and/or fabricate a project in AFNR.

PST.01.02.02.c Devise and document processes to safely implement and evaluate the safe use of AFNR related tools, machinery and equipment.

PST.01.02.03.c Conduct a safety inspection of tools, machines and equipment used in different AFNR related mechanical systems.

PST.01.03 Apply physical science principles to metal fabrication using a variety of welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.a Compare and contrast the principles and procedures of different welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.b Analyze the situation and determine the best welding and cutting process to be used in metal fabrication.

PST.01.03.01.c Evaluate the quality of metal fabrication procedures (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.02.a Compare and contrast the properties of different metals used in AFNR power, structural and technical systems (e.g., malleability, conductivity, optical properties, chemical composition, etc.).

PST.01.03.02.b Assess and select the proper electrode for use in various shielded metal arc welding situations.

PST.01.03.02.c Construct and/or repair metal structures and equipment using metal fabrication procedures.



PST.02 Operate and maintain AFNR mechanical equipment and power systems.

PST.02.02 Operate machinery and equipment while observing all safety precautions in AFNR settings.

PST.02.02.01.a Research and summarize the use of equipment, machinery and power units for AFNR power, structural and technical systems.

PST.02.02.01.c Perform pre-operation inspections, start-up & shut-down procedures on equipment, machinery and power units as specified in owner's manuals.

PST.02.02.02.b Apply safety principles and applicable regulations to operate equipment, machinery and power units used in AFNR power, structural and technical systems.

PST.04.02.01.b Analyze a project plan to prepare a bill of materials and an estimate of material costs.

PST.04.02.01.c Create a project cost estimate, including materials, labor and management for an AFNR structure.

Objectives / Essential Question

1. describe burns. 2. describe the dangers of three types of light pose to welding and how to protect yourself. 3. explain how to avoid eye and ear injuries. 4. select the correct eye and face protection. 5.describe respiratory hazards in the shop. 6. explain the purpose of MSDS sheets. 7. describe work clothing. 8.. describe the proper way to handle, store and use cylinders. 9. Discuss the danger of fire. 10. explain planned maintenance. 11. describe common hand tools. 12. discuss the types of metal

Homework / Evidence of Learning

Chapter 2 review questions - due Wed. Chapter 2 study guide - Due Thursday Safety Test - Friday

Instructional Strategies

MS.SE.4 Keep feedback timely and specific.

MS.CQ.1 Pause briefly after asking a question. Doing so will increase the depth of your students' answers.

MS.SN Summarizing and Note Taking

MS.SN.3 Use teacher-prepared notes.

MS.SE.5 Encourage students to lead feedback sessions.



Thursday 08/24/2023

Animal Science

Lesson / Instruction

Brief history of animals

Standards

AS.02.01.03.a Distinguish between animal husbandry practices that promote animal welfare and those that do not.

AS.01 Analyze historic and current trends impacting the animal systems industry.

AS.01.01 Evaluate the development and implications of animal origin, domestication and distribution on production practices and the environment.

AS.01.01.01.a Identify and summarize the origin, significance, distribution and domestication of different animal species.

AS.01.01.01.b Evaluate and describe characteristics of animals that developed in response to the animal's environment and led to their domestication.

AS.01.01.01.c Evaluate the implications of animal adaptations on production practices and the environment.

Objectives / Essential Question

breifly describe the history of animals on the earth, list the importance time periods in the evolution of animals, describe the theories of how animals became domesticated, describe the importance of the small animal industry, descirbe how organisms are classified, compare and contrast the Linnaeus classification system and the Woese system

Introduction to Ag

Lesson / Instruction

Range Plant ID and classification

Standards

NRS.01.02.02.b Identify herbaceous plants.

NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.

NRS.01.02.03.b Identify wildlife species.

NRS.02.04.04.a Identify characteristics of healthy rangeland.

NRS.02.04.04.b Identify methods of rangeland improvement.

NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.

NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.

NRS.02.06.07.a Define invasive species.

NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.

NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.

PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.

PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.

Homework / Evidence of Learning

Chapter 1 in PDF handout - notes Quiz over chapter 1 ID 10 grasses by Friday

Materials / Resources / Technology

PDF Range Judging Handbook Paper Copy's Powerpoints Google Classroom material

Plant Science/Hort

Lesson / Instruction

Range Plant ID and classification

Standards

NRS.01.02.02.b Identify herbaceous plants.

NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.

NRS.01.02.03.b Identify wildlife species.

NRS.02.04.04.a Identify characteristics of healthy rangeland.

NRS.02.04.04.b Identify methods of rangeland improvement.

NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.

NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.



NRS.02.06.07.a Define invasive species.

NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.

NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.

PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.

PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.

Homework / Evidence of Learning

Chapter 1 in PDF handout - notes Quiz over chapter 1 ID 10 grasses by Friday

Materials / Resources / Technology

PDF Range Judging Handbook Paper Copy's Powerpoints Google Classroom material

Science 7

Lesson / Instruction

Bellringer: Google Classroom

In class assignement to start on: Physical Properties: Qualitative or Quantitative. STudents will complete this assingment during class today and Thursday.

Standards

- UCP1 Systems, order, and organization
- UCP2 Evidence, models, and explanation
- UCP3 Change, consistency, and measurements
- SAI1 Abilities to do scientific inquiry
- SAI2 Understanding about scientific inquiry
- HNS1 Science as a human endeavor
- HNS2 Nature of science
- HNS3 History of science

Objectives / Essential Question

Explore more on the branches of science and how they fit together (study guide book)

Homework / Evidence of Learning

Physical Properties: Qualitative or Quantitative. STudents will complete this assingment during class today and Thursday. Due Friday, classtime

Friday - quiz over material covered this week.

Welding I

Lesson / Instruction

Welding Safety

Standards

PST.02.02.02.c Adjust equipment, machinery and power units for safe and efficient operation in AFNR power, structural and technical systems.

PST.04.04.01.a Compare and contrast direct and alternating current.

PST.01.02.02.a Identify the tools, machines and equipment needed to construct and/or fabricate a project in AFNR.

PST.01.02.02.c Devise and document processes to safely implement and evaluate the safe use of AFNR related tools, machinery and equipment.

PST.01.02.03.c Conduct a safety inspection of tools, machines and equipment used in different AFNR related mechanical systems.

PST.01.03 Apply physical science principles to metal fabrication using a variety of welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.a Compare and contrast the principles and procedures of different welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.b Analyze the situation and determine the best welding and cutting process to be used in metal fabrication.

PST.01.03.01.c Evaluate the quality of metal fabrication procedures (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.02.a Compare and contrast the properties of different metals used in AFNR power, structural and technical systems (e.g., malleability, conductivity, optical properties, chemical composition, etc.).

PST.01.03.02.b Assess and select the proper electrode for use in various shielded metal arc welding situations.



PST.01.03.02.c Construct and/or repair metal structures and equipment using metal fabrication procedures.

PST.02 Operate and maintain AFNR mechanical equipment and power systems.

PST.02.02 Operate machinery and equipment while observing all safety precautions in AFNR settings.

PST.02.02.01.a Research and summarize the use of equipment, machinery and power units for AFNR power, structural and technical systems.

PST.02.02.01.c Perform pre-operation inspections, start-up & shut-down procedures on equipment, machinery and power units as specified in owner's manuals.

PST.02.02.02.b Apply safety principles and applicable regulations to operate equipment, machinery and power units used in AFNR power, structural and technical systems.

PST.04.02.01.b Analyze a project plan to prepare a bill of materials and an estimate of material costs.

PST.04.02.01.c Create a project cost estimate, including materials, labor and management for an AFNR structure.

Objectives / Essential Question

1. describe burns. 2. describe the dangers of three types of light pose to welding and how to protect yourself. 3. explain how to avoid eye and ear injuries. 4. select the correct eye and face protection. 5.describe respiratory hazards in the shop. 6. explain the purpose of MSDS sheets. 7. describe work clothing. 8.. describe the proper way to handle, store and use cylinders. 9. Discuss the danger of fire. 10. explain planned maintenance. 11. describe common hand tools. 12. discuss the types of metal

Homework / Evidence of Learning

Chapter 2 review questions - due Wed. Chapter 2 study guide - Due Thursday Safety Test - Friday

Instructional Strategies

MS.CQ.1 Pause briefly after asking a question. Doing so will increase the depth of your students' answers.

MS.SN Summarizing and Note Taking

MS.SN.3 Use teacher-prepared notes.

MS.SE.5 Encourage students to lead feedback sessions.

MS.SE.4 Keep feedback timely and specific.



Friday 08/25/2023

Animal Science

Lesson / Instruction

Brief history of animals

Standards

AS.02.01.03.a Distinguish between animal husbandry practices that promote animal welfare and those that do not.

AS.01 Analyze historic and current trends impacting the animal systems industry.

AS.01.01 Evaluate the development and implications of animal origin, domestication and distribution on production practices and the environment.

AS.01.01.01.a Identify and summarize the origin, significance, distribution and domestication of different animal species.

AS.01.01.01.b Evaluate and describe characteristics of animals that developed in response to the animal's environment and led to their domestication.

AS.01.01.01.c Evaluate the implications of animal adaptations on production practices and the environment.

Objectives / Essential Question

breifly describe the history of animals on the earth, list the importance time periods in the evolution of animals, describe the theories of how animals became domesticated, describe the importance of the small animal industry, descirbe how organisms are classified, compare and contrast the Linnaeus classification system and the Woese system

Introduction to Ag

Lesson / Instruction

Range Plant ID and classification

Standards

NRS.01.02.02.b Identify herbaceous plants.

NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.

NRS.01.02.03.b Identify wildlife species.

NRS.02.04.04.a Identify characteristics of healthy rangeland.

NRS.02.04.04.b Identify methods of rangeland improvement.

NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.

NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.

NRS.02.06.07.a Define invasive species.

NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.

NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.

PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.

PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.

Homework / Evidence of Learning

Chapter 1 in PDF handout - notes Quiz over chapter 1 ID 10 grasses by Friday

Materials / Resources / Technology

PDF Range Judging Handbook Paper Copy's Powerpoints Google Classroom material

Plant Science/Hort

Lesson / Instruction

Range Plant ID and classification

Standards

NRS.01.02.02.b Identify herbaceous plants.

NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.

NRS.01.02.03.b Identify wildlife species.

NRS.02.04.04.a Identify characteristics of healthy rangeland.

NRS.02.04.04.b Identify methods of rangeland improvement.

NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.

NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.



NRS.02.06.07.a Define invasive species.

NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.

NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.

PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.

PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.

Homework / Evidence of Learning

Chapter 1 in PDF handout - notes Quiz over chapter 1 ID 10 grasses by Friday

Materials / Resources / Technology

PDF Range Judging Handbook Paper Copy's Powerpoints Google Classroom material

Science 7

Lesson / Instruction

Bellringer: Google classroom- read about the Millennium Bridge on Page 11 of text.

Quiz

Video: Golden Gate Bridge

Standards

UCP1 Systems, order, and organization

UCP2 Evidence, models, and explanation

UCP3 Change, consistency, and measurements

SAI1 Abilities to do scientific inquiry

SAI2 Understanding about scientific inquiry

HNS1 Science as a human endeavor

HNS2 Nature of science

HNS3 History of science

Objectives / Essential Question

How do scientists explore the world, how are the many types of science organized, what are scientific theories and how are they differnt from scientific laws?

Welding I

Lesson / Instruction

Welding Safety

Standards

PST.02.02.02.c Adjust equipment, machinery and power units for safe and efficient operation in AFNR power, structural and technical systems.

PST.04.04.01.a Compare and contrast direct and alternating current.

PST.01.02.02.a Identify the tools, machines and equipment needed to construct and/or fabricate a project in AFNR.

PST.01.02.02.c Devise and document processes to safely implement and evaluate the safe use of AFNR related tools, machinery and equipment.

PST.01.02.03.c Conduct a safety inspection of tools, machines and equipment used in different AFNR related mechanical systems.

PST.01.03 Apply physical science principles to metal fabrication using a variety of welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.a Compare and contrast the principles and procedures of different welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.b Analyze the situation and determine the best welding and cutting process to be used in metal fabrication.

PST.01.03.01.c Evaluate the quality of metal fabrication procedures (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.02.a Compare and contrast the properties of different metals used in AFNR power, structural and technical systems (e.g., malleability, conductivity, optical properties, chemical composition, etc.).

PST.01.03.02.b Assess and select the proper electrode for use in various shielded metal arc welding situations.

PST.01.03.02.c Construct and/or repair metal structures and equipment using metal fabrication procedures.

PST.02 Operate and maintain AFNR mechanical equipment and power systems.



PST.02.02 Operate machinery and equipment while observing all safety precautions in AFNR settings.

PST.02.02.01.a Research and summarize the use of equipment, machinery and power units for AFNR power, structural and technical systems.

PST.02.02.01.c Perform pre-operation inspections, start-up & shut-down procedures on equipment, machinery and power units as specified in owner's manuals.

PST.02.02.02.b Apply safety principles and applicable regulations to operate equipment, machinery and power units used in AFNR power, structural and technical systems.

PST.04.02.01.b Analyze a project plan to prepare a bill of materials and an estimate of material costs.

PST.04.02.01.c Create a project cost estimate, including materials, labor and management for an AFNR structure.

Objectives / Essential Question

1. describe burns. 2. describe the dangers of three types of light pose to welding and how to protect yourself. 3. explain how to avoid eye and ear injuries. 4.

select the correct eye and face protection. 5.describe respiratory hazards in the shop. 6. explain the purpose of MSDS sheets. 7. describe work clothing. 8.. describe the proper way to handle, store and use cylinders. 9. Discuss the danger of fire. 10. explain planned maintenance. 11. describe common hand tools. 12. discuss the types of metal

Homework / Evidence of Learning

Chapter 2 review questions - due Wed. Chapter 2 study guide - Due Thursday Safety Test - Friday

Instructional Strategies

MS.SE.4 Keep feedback timely and specific.

MS.CQ.1 Pause briefly after asking a question. Doing so will increase the depth of your students' answers.

MS.SN Summarizing and Note Taking

MS.SN.3 Use teacher-prepared notes.

MS.SE.5 Encourage students to lead feedback sessions.



Monday 08/28/2023		
Animal Science	Range Plant ID and classification	
Introduction to Ag	Standards	
Lesson / Instruction	NRS.01.02.02.b Identify herbaceous plants.	
Range Plant ID and classification	NRS 01 02 02 a Describe morphological characteristics used to identify	
Standards	herbaceous plants.	
NRS.01.02.02.b Identify herbaceous plants.	NRS.01.02.03.b Identify wildlife species.	
NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.	NRS.02.04.04.a Identify characteristics of healthy rangeland.	
NRS.01.02.03.b Identify wildlife species.	NRS.02.04.04.b Identify methods of rangeland improvement.	
NRS.02.04.04.a Identify characteristics of healthy rangeland.	NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.	
NRS.02.04.04.b Identify methods of rangeland improvement. NRS.02.04.04.c Evaluate a rangeland and develop a management plan for	NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.	
improvement.	NRS.02.06.07.a Define invasive species.	
NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.	NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.	
NRS.02.06.07.a Define invasive species.	NRS 02 06 07 b Discuss factors that influence the establishment and spread of	
NRS.02.06.06.c Create and implement a management plan based on a	invasive species.	
population study for a community of organisms.	PS 01 03 04 c. Select plant growth regulators to produce desired responses	
NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.	from plants.	
PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.	different forms of tropism.	
PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.	Homework / Evidence of Learning Chapter 1 in PDF handout - notes Quiz over chapter 1	
Homework / Evidence of Learning	ID 10 grasses by Friday	
Chapter 1 in PDF handout - notes	Materials / Resources / Technology	
Quiz over chapter 1	PDF Range Judging Handbook	
ID 10 grasses by Friday	Paper Copy's	
Materials / Resources / Technology	Powerpoints	
PDF Range Judging Handbook	Google Classroom material	
Paper Copy's Powerpointe	Science 7	
Google Classroom material	Lesson / Instruction	
Plant Science/Hort	What methods are used to classify living things into groups	
Lesson / Instruction	אווז עטבא בעבוץ אבטבא וומעב מ אטבוונווני וומוווב	

Standards

UCP1 Systems, order, and organization

- UCP2 Evidence, models, and explanation
- UCP3 Change, consistency, and measurements
- SAI1 Abilities to do scientific inquiry
- SAI2 Understanding about scientific inquiry
- ST2 Understanding about science and technology
- HNS1 Science as a human endeavor
- HNS2 Nature of science
- HNS3 History of science

Objectives / Essential Question

Classify organisms

Instructional Strategies

MS.SD.2 Engage students in comparing, classifying, and creating metaphors and analogies.

MS.SD Identifying Similarities and Differences

MS.SN Summarizing and Note Taking

Welding I

Lesson / Instruction

Welding - SMAW welding processes

Standards

PST.02.02.02.c Adjust equipment, machinery and power units for safe and efficient operation in AFNR power, structural and technical systems.

PST.04.04.01.a Compare and contrast direct and alternating current.

PST.01.02.02.a Identify the tools, machines and equipment needed to construct and/or fabricate a project in AFNR.

PST.01.02.02.c Devise and document processes to safely implement and evaluate the safe use of AFNR related tools, machinery and equipment.

PST.01.02.03.c Conduct a safety inspection of tools, machines and equipment used in different AFNR related mechanical systems.

PST.01.03 Apply physical science principles to metal fabrication using a variety of welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.a Compare and contrast the principles and procedures of different welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.b Analyze the situation and determine the best welding and cutting process to be used in metal fabrication.

PST.01.03.01.c Evaluate the quality of metal fabrication procedures (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.02.a Compare and contrast the properties of different metals used in AFNR power, structural and technical systems (e.g., malleability, conductivity, optical properties, chemical composition, etc.).

PST.01.03.02.b Assess and select the proper electrode for use in various shielded metal arc welding situations.

PST.01.03.02.c Construct and/or repair metal structures and equipment using metal fabrication procedures.

PST.02 Operate and maintain AFNR mechanical equipment and power systems.

PST.02.02 Operate machinery and equipment while observing all safety precautions in AFNR settings.

PST.02.02.01.a Research and summarize the use of equipment, machinery and power units for AFNR power, structural and technical systems.

PST.02.02.01.c Perform pre-operation inspections, start-up & shut-down procedures on equipment, machinery and power units as specified in owner's manuals.

PST.02.02.02.b Apply safety principles and applicable regulations to operate equipment, machinery and power units used in AFNR power, structural and technical systems.

PST.04.02.01.b Analyze a project plan to prepare a bill of materials and an estimate of material costs.

PST.04.02.01.c Create a project cost estimate, including materials, labor and management for an AFNR structure.

Objectives / Essential Question

1. describe burns. 2. describe the dangers of three types of light pose to welding and how to protect yourself. 3. explain how to avoid eye and ear injuries. 4. select the correct eye and face protection. 5.describe respiratory hazards in the shop. 6. explain the purpose of MSDS sheets. 7. describe work clothing. 8.. describe the proper way to handle, store and use cylinders. 9. Discuss the



danger of fire. 10. explain planned maintenance. 11. describe common hand tools. 12. discuss the types of metal

Homework / Evidence of Learning

Ch 3 SMAW questions 1-10 - due Tuesday Questions 11-21 due Wed. In shop Thursday - Friday

Instructional Strategies

MS.SE.4 Keep feedback timely and specific.

MS.SN.3 Use teacher-prepared notes.

MS.SN Summarizing and Note Taking

MS.SE.5 Encourage students to lead feedback sessions.

MS.CQ.1 Pause briefly after asking a question. Doing so will increase the depth of your students' answers.



Tuesday 08/29/2023		
Animal Science	Range Plant ID and classification	
Introduction to Ag	Standards	
Lesson / Instruction	NRS.01.02.02.b Identify herbaceous plants.	
Range Plant ID and classification	NRS.01.02.02 a Describe morphological characteristics used to identify	
Standards	herbaceous plants.	
NRS.01.02.02.b Identify herbaceous plants.	NRS.01.02.03.b Identify wildlife species.	
NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.	NRS.02.04.04.a Identify characteristics of healthy rangeland.	
NRS.01.02.03.b Identify wildlife species.	NRS.02.04.04.b Identify methods of rangeland improvement.	
NRS.02.04.04.a Identify characteristics of healthy rangeland.	NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.	
NRS.02.04.04.b Identify methods of rangeland improvement. NRS.02.04.04.c Evaluate a rangeland and develop a management plan for	NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.	
improvement.	NRS.02.06.07.a Define invasive species.	
NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.	NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.	
NRS.02.06.07.a Define invasive species.	NRS 02 06 07 b Discuss factors that influence the establishment and spread of	
NRS.02.06.06.c Create and implement a management plan based on a	invasive species.	
NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species	PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.	
PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.	PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.	
PS 01 03 04 h Identify the plant responses to plant growth regulators and	Homework / Evidence of Learning	
different forms of tropism.	Chapter 1 in PDF handout - notes	
Homowork / Evidence of Learning	Quiz over chapter 1	
Chapter 1 in PDE handout notes	ID 10 grasses by Friday	
Quiz over chapter 1	Materials / Resources / Technology	
ID 10 grasses by Friday	PDF Range Judging Handbook	
Materials / Resources / Technology	Powerpoints	
PDF Range Judging Handbook	Google Classroom material	
Paper Copy's	Science 7	
Powerpoints	Lesson / Instruction	
Google Classroom material	What methods are used to classify living things into groups	
Plant Science/Hort	why does every species have a scientific name	
Lesson / Instruction		



Standards

UCP1 Systems, order, and organization

- UCP2 Evidence, models, and explanation
- UCP3 Change, consistency, and measurements
- SAI1 Abilities to do scientific inquiry
- SAI2 Understanding about scientific inquiry
- ST2 Understanding about science and technology
- HNS1 Science as a human endeavor
- HNS2 Nature of science
- HNS3 History of science

Objectives / Essential Question

Classify organisms

Instructional Strategies

MS.SN Summarizing and Note Taking

MS.SD.2 Engage students in comparing, classifying, and creating metaphors and analogies.

MS.SD Identifying Similarities and Differences

Materials / Resources / Technology

Watch a Brain Pop video in class

Welding I

Lesson / Instruction

Welding - SMAW welding processes

Standards

PST.02.02.02.c Adjust equipment, machinery and power units for safe and efficient operation in AFNR power, structural and technical systems.

PST.04.04.01.a Compare and contrast direct and alternating current.

PST.01.02.02.a Identify the tools, machines and equipment needed to construct and/or fabricate a project in AFNR.

PST.01.02.02.c Devise and document processes to safely implement and evaluate the safe use of AFNR related tools, machinery and equipment.

PST.01.02.03.c Conduct a safety inspection of tools, machines and equipment used in different AFNR related mechanical systems.

PST.01.03 Apply physical science principles to metal fabrication using a variety of welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.a Compare and contrast the principles and procedures of different welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.b Analyze the situation and determine the best welding and cutting process to be used in metal fabrication.

PST.01.03.01.c Evaluate the quality of metal fabrication procedures (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.02.a Compare and contrast the properties of different metals used in AFNR power, structural and technical systems (e.g., malleability, conductivity, optical properties, chemical composition, etc.).

PST.01.03.02.b Assess and select the proper electrode for use in various shielded metal arc welding situations.

PST.01.03.02.c Construct and/or repair metal structures and equipment using metal fabrication procedures.

PST.02 Operate and maintain AFNR mechanical equipment and power systems.

PST.02.02 Operate machinery and equipment while observing all safety precautions in AFNR settings.

PST.02.02.01.a Research and summarize the use of equipment, machinery and power units for AFNR power, structural and technical systems.

PST.02.02.01.c Perform pre-operation inspections, start-up & shut-down procedures on equipment, machinery and power units as specified in owner's manuals.

PST.02.02.02.b Apply safety principles and applicable regulations to operate equipment, machinery and power units used in AFNR power, structural and technical systems.

PST.04.02.01.b Analyze a project plan to prepare a bill of materials and an estimate of material costs.

PST.04.02.01.c Create a project cost estimate, including materials, labor and management for an AFNR structure.

Objectives / Essential Question

1. describe burns. 2. describe the dangers of three types of light pose to welding and how to protect yourself. 3. explain how to avoid eye and ear injuries. 4. select the correct eye and face protection. 5.describe respiratory hazards in the



shop. 6. explain the purpose of MSDS sheets. 7. describe work clothing. 8.. describe the proper way to handle, store and use cylinders. 9. Discuss the danger of fire. 10. explain planned maintenance. 11. describe common hand tools. 12. discuss the types of metal

Homework / Evidence of Learning

Ch 3 SMAW questions 1-10 - due Tuesday Questions 11-21 due Wed. In shop Thursday - Friday

Instructional Strategies

MS.SN.3 Use teacher-prepared notes.

MS.SN Summarizing and Note Taking

MS.CQ.1 Pause briefly after asking a question. Doing so will increase the depth of your students' answers.

- MS.SE.5 Encourage students to lead feedback sessions.
- MS.SE.4 Keep feedback timely and specific.



Wednesday 08/30/2023		
Animal Science	Range Plant ID and classification	
Introduction to Ag	Standards	
Lesson / Instruction	NRS.01.02.02.b Identify herbaceous plants.	
Range Plant ID and classification	NRS 01 02 02 a Describe morphological characteristics used to identify	
Standards	herbaceous plants.	
NRS.01.02.02.b Identify herbaceous plants.	NRS.01.02.03.b Identify wildlife species.	
NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.	NRS.02.04.04.a Identify characteristics of healthy rangeland.	
NRS.01.02.03.b Identify wildlife species.	NRS.02.04.04.b Identify methods of rangeland improvement.	
NRS.02.04.04.a Identify characteristics of healthy rangeland.	NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.	
NRS.02.04.04.b Identify methods of rangeland improvement. NRS.02.04.04.c Evaluate a rangeland and develop a management plan for	NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.	
improvement.	NRS.02.06.07.a Define invasive species.	
NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.	NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.	
NRS.02.06.07.a Define invasive species.	NRS 02 06 07 h Discuss factors that influence the establishment and spread of	
NRS.02.06.06.c Create and implement a management plan based on a	invasive species.	
population study for a community of organisms.	PS.01.03.04 c Select plant growth regulators to produce desired responses	
NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.	from plants.	
PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.	different forms of tropism.	
PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.	Homework / Evidence of Learning Chapter 1 in PDF handout - notes Quiz over chapter 1	
Homework / Evidence of Learning	ID 10 grasses by Friday	
Chapter 1 in PDF handout - notes	Materials / Resources / Technology	
Quiz over chapter 1	PDF Range Judging Handbook	
ID 10 grasses by Friday	Paper Copy's	
Materials / Resources / Technology	Powerpoints	
PDF Range Judging Handbook	Google Classroom material	
Paper Copy's Powerpoints	Science 7	
Google Classroom material	Lesson / Instruction	
Plant Science/Hort	why does every species have a scientific name	
Lesson / Instruction	אווץ נוסבא בעבוץ אבכובא וומעב מ אכובוונווע וומוווב	

Classification Tools - Using a dichotomous key

Standards

- UCP1 Systems, order, and organization
- UCP2 Evidence, models, and explanation
- UCP3 Change, consistency, and measurements
- SAI1 Abilities to do scientific inquiry
- SAI2 Understanding about scientific inquiry
- ST2 Understanding about science and technology
- HNS1 Science as a human endeavor
- HNS2 Nature of science
- HNS3 History of science

Objectives / Essential Question

NO CLASS TODAY - testing

Homework / Evidence of Learning

Dichotomous Key Assignment (Venn Diagram)

Instructional Strategies

MS.SN Summarizing and Note Taking

MS.SD Identifying Similarities and Differences

MS.SD.2 Engage students in comparing, classifying, and creating metaphors and analogies.

Welding I

Lesson / Instruction

Welding - SMAW welding processes

Standards

PST.02.02.02.c Adjust equipment, machinery and power units for safe and efficient operation in AFNR power, structural and technical systems.

PST.04.04.01.a Compare and contrast direct and alternating current.

PST.01.02.02.a Identify the tools, machines and equipment needed to construct and/or fabricate a project in AFNR.

PST.01.02.02.c Devise and document processes to safely implement and evaluate the safe use of AFNR related tools, machinery and equipment.

PST.01.02.03.c Conduct a safety inspection of tools, machines and equipment used in different AFNR related mechanical systems.

PST.01.03 Apply physical science principles to metal fabrication using a variety of welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.a Compare and contrast the principles and procedures of different welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.b Analyze the situation and determine the best welding and cutting process to be used in metal fabrication.

PST.01.03.01.c Evaluate the quality of metal fabrication procedures (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.02.a Compare and contrast the properties of different metals used in AFNR power, structural and technical systems (e.g., malleability, conductivity, optical properties, chemical composition, etc.).

PST.01.03.02.b Assess and select the proper electrode for use in various shielded metal arc welding situations.

PST.01.03.02.c Construct and/or repair metal structures and equipment using metal fabrication procedures.

PST.02 Operate and maintain AFNR mechanical equipment and power systems.

PST.02.02 Operate machinery and equipment while observing all safety precautions in AFNR settings.

PST.02.02.01.a Research and summarize the use of equipment, machinery and power units for AFNR power, structural and technical systems.

PST.02.02.01.c Perform pre-operation inspections, start-up & shut-down procedures on equipment, machinery and power units as specified in owner's manuals.

PST.02.02.02.b Apply safety principles and applicable regulations to operate equipment, machinery and power units used in AFNR power, structural and technical systems.

PST.04.02.01.b Analyze a project plan to prepare a bill of materials and an estimate of material costs.

PST.04.02.01.c Create a project cost estimate, including materials, labor and management for an AFNR structure.

Objectives / Essential Question



1. describe burns. 2. describe the dangers of three types of light pose to welding and how to protect yourself. 3. explain how to avoid eye and ear injuries. 4. select the correct eye and face protection. 5.describe respiratory hazards in the shop. 6. explain the purpose of MSDS sheets. 7. describe work clothing. 8.. describe the proper way to handle, store and use cylinders. 9. Discuss the danger of fire. 10. explain planned maintenance. 11. describe common hand tools. 12. discuss the types of metal

Homework / Evidence of Learning

Ch 3 SMAW questions 1-10 - due Tuesday Questions 11-21 due Wed.

In shop Thursday - Friday

Instructional Strategies

MS.SE.5 Encourage students to lead feedback sessions.

MS.CQ.1 Pause briefly after asking a question. Doing so will increase the depth of your students' answers.

MS.SN Summarizing and Note Taking

MS.SE.4 Keep feedback timely and specific.

MS.SN.3 Use teacher-prepared notes.



Thursday 08/31/2023		
Animal Science	Range Plant ID and classification	
Introduction to Ag	Standards	
Lesson / Instruction	NRS.01.02.02.b Identify herbaceous plants.	
Range Plant ID and classification	NRS 01 02 02 a Describe morphological characteristics used to identify	
Standards	herbaceous plants.	
NRS.01.02.02.b Identify herbaceous plants.	NRS.01.02.03.b Identify wildlife species.	
NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.	NRS.02.04.04.a Identify characteristics of healthy rangeland.	
NRS.01.02.03.b Identify wildlife species.	NRS.02.04.04.b Identify methods of rangeland improvement.	
NRS.02.04.04.a Identify characteristics of healthy rangeland.	NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.	
NRS.02.04.04.b Identify methods of rangeland improvement. NRS.02.04.04.c Evaluate a rangeland and develop a management plan for	NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.	
improvement.	NRS.02.06.07.a Define invasive species.	
NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.	NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.	
NRS.02.06.07.a Define invasive species.	NRS 02 06 07 h Discuss factors that influence the establishment and spread of	
NRS.02.06.06.c Create and implement a management plan based on a	invasive species.	
population study for a community of organisms.	PS.01.03.04.c Select plant growth regulators to produce desired responses	
NRS.02.06.07.b Discuss factors that influence the establishment and spread of invasive species.	from plants.	
PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.	different forms of tropism.	
PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.	Homework / Evidence of Learning Chapter 1 in PDF handout - notes Quiz over chapter 1	
Homework / Evidence of Learning	ID 10 grasses by Friday	
Chapter 1 in PDF handout - notes	Materials / Resources / Technology	
Quiz over chapter 1	PDF Range Judging Handbook	
ID 10 grasses by Friday	Paper Copy's	
Materials / Resources / Technology	Powerpoints	
PDF Range Judging Handbook	Google Classroom material	
Paper Copy S Powernoints	Science /	
Goode Classroom material	Lesson / Instruction	
Plant Science/Hort	what methods are used to classify living things into groups	
Lesson / Instruction	wity does every species have a scientific flame	



Cladograms - what are they, and how do you use them to organize living things? complete "Mini Lab" page 23 in class

Review Lesson 2 material by answering questions 1-7 on page 24 as a class.

Standards

- UCP1 Systems, order, and organization
- UCP2 Evidence, models, and explanation
- UCP3 Change, consistency, and measurements
- SAI1 Abilities to do scientific inquiry
- SAI2 Understanding about scientific inquiry
- ST2 Understanding about science and technology
- HNS1 Science as a human endeavor
- HNS2 Nature of science
- HNS3 History of science

Objectives / Essential Question

Classify organisms

Instructional Strategies

MS.SD Identifying Similarities and Differences

MS.SD.2 Engage students in comparing, classifying, and creating metaphors and analogies.

MS.SN Summarizing and Note Taking

Welding

Lesson / Instruction

Welding - SMAW welding processes

Standards

PST.02.02.02.c Adjust equipment, machinery and power units for safe and efficient operation in AFNR power, structural and technical systems.

PST.04.04.01.a Compare and contrast direct and alternating current.

PST.01.02.02.a Identify the tools, machines and equipment needed to construct and/or fabricate a project in AFNR.

PST.01.02.02.c Devise and document processes to safely implement and evaluate the safe use of AFNR related tools, machinery and equipment.

PST.01.02.03.c Conduct a safety inspection of tools, machines and equipment used in different AFNR related mechanical systems.

PST.01.03 Apply physical science principles to metal fabrication using a variety of welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.a Compare and contrast the principles and procedures of different welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.01.b Analyze the situation and determine the best welding and cutting process to be used in metal fabrication.

PST.01.03.01.c Evaluate the quality of metal fabrication procedures (e.g., SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.).

PST.01.03.02.a Compare and contrast the properties of different metals used in AFNR power, structural and technical systems (e.g., malleability, conductivity, optical properties, chemical composition, etc.).

PST.01.03.02.b Assess and select the proper electrode for use in various shielded metal arc welding situations.

PST.01.03.02.c Construct and/or repair metal structures and equipment using metal fabrication procedures.

PST.02 Operate and maintain AFNR mechanical equipment and power systems.

PST.02.02 Operate machinery and equipment while observing all safety precautions in AFNR settings.

PST.02.02.01.a Research and summarize the use of equipment, machinery and power units for AFNR power, structural and technical systems.

PST.02.02.01.c Perform pre-operation inspections, start-up & shut-down procedures on equipment, machinery and power units as specified in owner's manuals.

PST.02.02.02.b Apply safety principles and applicable regulations to operate equipment, machinery and power units used in AFNR power, structural and technical systems.

PST.04.02.01.b Analyze a project plan to prepare a bill of materials and an estimate of material costs.

PST.04.02.01.c Create a project cost estimate, including materials, labor and management for an AFNR structure.

Objectives / Essential Question

1. describe burns. 2. describe the dangers of three types of light pose to welding and how to protect yourself. 3. explain how to avoid eye and ear injuries. 4. select the correct eye and face protection. 5.describe respiratory hazards in the



shop. 6. explain the purpose of MSDS sheets. 7. describe work clothing. 8.. describe the proper way to handle, store and use cylinders. 9. Discuss the danger of fire. 10. explain planned maintenance. 11. describe common hand tools. 12. discuss the types of metal

Homework / Evidence of Learning

Ch 3 SMAW questions 1-10 - due Tuesday Questions 11-21 due Wed. In shop Thursday - Friday

Instructional Strategies

MS.SN.3 Use teacher-prepared notes.

MS.SE.4 Keep feedback timely and specific.

MS.SE.5 Encourage students to lead feedback sessions.

MS.CQ.1 Pause briefly after asking a question. Doing so will increase the depth of your students' answers.

MS.SN Summarizing and Note Taking



Friday 09/01/2023		
Animal Science	Range Plant ID and classification	
Introduction to Ag	Standards	
Lesson / Instruction	NRS.01.02.02.b Identify herbaceous plants.	
Range Plant ID and classification	NRS.01.02.02.a Describe morphological characteristics used to identify	
Standards	herbaceous plants.	
NRS.01.02.02.b Identify herbaceous plants.	NRS.01.02.03.b Identify wildlife species.	
NRS.01.02.02.a Describe morphological characteristics used to identify herbaceous plants.	NRS.02.04.04.a Identify characteristics of healthy rangeland.	
NRS.01.02.03.b Identify wildlife species.	NRS.02.04.04.b Identify methods of rangeland improvement.	
NRS.02.04.04.a Identify characteristics of healthy rangeland.	NRS.02.04.04.c Evaluate a rangeland and develop a management plan for improvement.	
NRS.02.04.04.b Identify methods of rangeland improvement. NRS.02.04.04.c Evaluate a rangeland and develop a management plan for	NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.	
improvement.	NRS.02.06.07.a Define invasive species.	
NRS.02.04.05.a Identify natural resource characteristics desirable for recreational purposes.	NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.	
NRS.02.06.07.a Define invasive species.	NRS 02 06 07 h Discuss factors that influence the establishment and spread of	
NRS.02.06.06.c Create and implement a management plan based on a population study for a community of organisms.	invasive species.	
NRS.02.06.07.b Discuss factors that influence the establishment and spread of	PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.	
PS.01.03.04.c Select plant growth regulators to produce desired responses from plants.	PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.	
PS.01.03.04.b Identify the plant responses to plant growth regulators and different forms of tropism.	Homework / Evidence of Learning Chapter 1 in PDF handout - notes Ouiz over chapter 1	
Homework / Evidence of Learning	ID 10 grasses by Friday	
Chapter 1 in PDF handout - notes	Materials / Resources / Technology	
Quiz over chapter 1	PDF Range Judging Handbook	
ID 10 grasses by Friday	Paper Copy's	
Materials / Resources / Technology	Powerpoints	
PDF Range Judging Handbook	Google Classroom material	
Paper Copy S Powernoints	Science 7	
Goode Classroom material	Lesson / Instruction	
Plant Science/Hort	what methods are used to classify living things into groups	
Lesson / Instruction	wity does every species have a scientific flame	

PST.01.03 Apply physical science principles to metal fabrication using a variety of welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-oxygen and Lesson 2 Quiz (open book) plasma arc torch, etc.). Standards PST.01.03.01.a Compare and contrast the principles and procedures of different welding and cutting processes (e.g., SMAW, GMAW, GTAW, fuel-UCP1 Systems, order, and organization oxygen and plasma arc torch, etc.). UCP2 Evidence, models, and explanation PST.01.03.01.b Analyze the situation and determine the best welding and UCP3 Change, consistency, and measurements cutting process to be used in metal fabrication. SAI1 Abilities to do scientific inquiry PST.01.03.01.c Evaluate the quality of metal fabrication procedures (e.g., SAI2 Understanding about scientific inquiry SMAW, GMAW, GTAW, fuel-oxygen and plasma arc torch, etc.). ST2 Understanding about science and technology PST.01.03.02.a Compare and contrast the properties of different metals used in AFNR power, structural and technical systems (e.g., malleability, conductivity, HNS1 Science as a human endeavor optical properties, chemical composition, etc.). HNS2 Nature of science PST.01.03.02.b Assess and select the proper electrode for use in various HNS3 History of science shielded metal arc welding situations. **Objectives / Essential Question** PST.01.03.02.c Construct and/or repair metal structures and equipment using Classify organisms metal fabrication procedures. **Instructional Strategies** PST.02 Operate and maintain AFNR mechanical equipment and power MS.SN Summarizing and Note Taking systems. MS.SD Identifying Similarities and Differences PST.02.02 Operate machinery and equipment while observing all safety precautions in AFNR settings. MS.SD.2 Engage students in comparing, classifying, and creating metaphors PST.02.02.01.a Research and summarize the use of equipment, machinery and analogies. and power units for AFNR power, structural and technical systems. PST.02.02.01.c Perform pre-operation inspections, start-up & shut-down Lesson / Instruction procedures on equipment, machinery and power units as specified in owner's Welding - SMAW welding processes manuals. Standards PST.02.02.02.b Apply safety principles and applicable regulations to operate PST.02.02.02.c Adjust equipment, machinery and power units for safe and equipment, machinery and power units used in AFNR power, structural and efficient operation in AFNR power, structural and technical systems. technical systems. PST.04.04.01.a Compare and contrast direct and alternating current. PST.04.02.01.b Analyze a project plan to prepare a bill of materials and an PST.01.02.02.a Identify the tools, machines and equipment needed to estimate of material costs. construct and/or fabricate a project in AFNR. PST.04.02.01.c Create a project cost estimate, including materials, labor and PST.01.02.02.c Devise and document processes to safely implement and management for an AFNR structure. evaluate the safe use of AFNR related tools, machinery and equipment. **Objectives / Essential Question** PST.01.02.03.c Conduct a safety inspection of tools, machines and equipment

1. describe burns. 2. describe the dangers of three types of light pose to welding and how to protect yourself. 3. explain how to avoid eye and ear injuries. 4. select the correct eye and face protection. 5.describe respiratory hazards in the

used in different AFNR related mechanical systems.



shop. 6. explain the purpose of MSDS sheets. 7. describe work clothing. 8.. describe the proper way to handle, store and use cylinders. 9. Discuss the danger of fire. 10. explain planned maintenance. 11. describe common hand tools. 12. discuss the types of metal

Homework / Evidence of Learning

Ch 3 SMAW questions 1-10 - due Tuesday Questions 11-21 due Wed. In shop Thursday - Friday

Instructional Strategies

MS.SN Summarizing and Note Taking

MS.SE.5 Encourage students to lead feedback sessions.

MS.CQ.1 Pause briefly after asking a question. Doing so will increase the depth of your students' answers.

- MS.SE.4 Keep feedback timely and specific.
- MS.SN.3 Use teacher-prepared notes.