

# Science

**Classification - The student uses various classification methods to organize information.** SCI- CLASS

## 1 Recognize and Recall

- a Sort things based on similarities and differences SCI- CLASS.1A
  - b Match basic characteristics of living and non-living things SCI- CLASS.1B
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## 2 Identify and Comprehend

- a Identify where different organisms/item live/belong SCI- CLASS.2A
  - b Sort items into groups with similar characteristics SCI- CLASS.2B
  - c Categorize items based on features, functions and class SCI- CLASS.2C
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## 3 Interpret and Understand

- a Group items by harmful and not harmful. (i.e., toxic plants, dangerous equipment) SCI- CLASS.3A
  - b Explain the differences and similarities between various plants and animals SCI- CLASS.3B
  - c Identify organisms based on their environment (i.e., Specific plants need certain conditions to grow) SCI- CLASS.3C
  - d Describe similarities between items SCI- CLASS.3D
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## 4 Apply and Generalize

- a Apply knowledge of items to real world situations (e.g., knowing difference between venomous and non-venomous animals, identifying appropriate tools to complete a job) SCI- CLASS.4A
  - b Use knowledge of a variety of items/concepts to problem solve real world problems SCI- CLASS.4B
  - c Use categorization to sort and explain various pieces of information SCI- CLASS.4C
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**Ecology - The student utilizes knowledge of natural resources to practice conservation of resources.** WRS: 15 SCI-

ECO

## 1 Recognize and Recall

- a Find natural and unnatural items in their environment SCI-ECO.1A
- b Sort between different recyclable and nonrecyclable materials SCI-ECO.1B

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## 2 Identify and Comprehend

- a Recognize which are consumers and which are producers **SCI-ECO.2A**
  - b Name specific things in the environment needed to live (i.e., Water, food, shelter) **SCI-ECO.2B**
  - c Label and sort recyclable materials **SCI-ECO.2C**
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## 3 Interpret and Understand

- a Verify the importance of the sun in the ecosystem **SCI-ECO.3A**
  - b Identify sources of energy in the environment **SCI-ECO.3B**
  - c Perform resource management tasks (i.e., recycling, reusing, reducing waste) **SCI-ECO.3C**
  - d Understand impact individuals' behavior has on environment and opportunities to conserve resources **SCI-ECO.3D**
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## 4 Apply and Generalize

- a Apply knowledge of how the ecosystem works to real life experiences **SCI-ECO.4A**
  - b Apply recycling knowledge to own environment **SCI-ECO.4B**
  - c Apply knowledge of energy sources when making decisions about places to live, work, etc. **SCI-ECO.4C**
  - d Utilizes opportunities to conserve resources within household/living routines **SCI-ECO.4D**
  - e Practice habits that will prevent negative human impact on the earth (recycling, planting plants) **SCI-ECO.4E**
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**Chemical Reactions -  
The student identifies  
and applies chemical  
characteristics and  
interactions in a variety  
of environments. WRS:**

**11** **SCI-CHEM**

## 1 Recognize and Recall

- a Match pictures or objects of chemicals **SCI-CHEM.1A**
  - b Select picture or example of a chemical reaction **SCI-CHEM.1B**
  - c Show that you can build larger things from smaller things **SCI-CHEM.1C**
  - d Choose individual ingredients in cooking **SCI-CHEM.1D**
  - e Recognize hazardous materials **SCI-CHEM.1E**
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## 2 Identify and Comprehend

- a Identify hazardous chemical label pictures **SCI-CHEM.2A**
- b Identify the difference between physical and chemical reactions **SCI-CHEM.2B**
- c Recognize that all matter is made up of smaller particles **SCI-CHEM.2C**
- d Label the difference between individual ingredients and solutions and compounds in cooking **SCI-CHEM.2D**

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### 3 Interpret and Understand

- a Examine a variety of chemicals and verify bottles with hazardous labels and ones without **SCI-CHEM.3A**
- b Perform a variety of safe chemical reactions and explain what happened in the reaction **SCI-CHEM.3B**
- c Practice utilizing understanding of compounds and solutions by participating in cooking and science experiments that create various compounds and solutions **SCI-CHEM.3C**
- d Identify and appropriately use chemicals/solutions for completing common household tasks **SCI-CHEM.3D**

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### 4 Apply and Generalize

- a Apply chemical safety knowledge by identifying household and workplace chemicals; where to find more information about the chemicals; and practicing chemical safety by using personal protective equipment when interacting with chemicals **SCI-CHEM.4A**
- b Apply knowledge of chemicals, reactions, and hazardous to demonstrate chemical safety in a variety of scenarios **SCI-CHEM.4B**
- c Safely perform household and job related tasks involving common household chemicals **SCI-CHEM.4C**

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### Weather - Demonstrate application of changes and patterns related to weather. **SCI-WEA**

#### 1 Recognize and Recall

- a Recognize current, past and future weather conditions **SCI-WEA.1A**
- b Match common weather conditions to seasons **SCI-WEA.1B**
- c Select processes that show that the earth changes (seedling to tree, clean street to polluted street) **SCI-WEA.1C**
- d Select the differences between day and night **SCI-WEA.1D**

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#### 2 Identify and Comprehend

- a Label what clothing someone would wear in various weather conditions **SCI-WEA.2A**
- b Identify characteristics of seasons **SCI-WEA.2B**
- c Identify activities and characteristics of day and night **SCI-WEA.2C**

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#### 3 Interpret and Understand

- a Plan appropriate activities and clothing based on a weather report **SCI-WEA.3A**
- b Decide what activities and clothing is appropriate for the seasons **SCI-WEA.3B**
- c Understand procedures to follow during emergency weather conditions **SCI-WEA.3C**

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#### 4 Apply and Generalize

- a Demonstrate an understanding of weather and seasons by explaining why weather and seasons occur and how to react in a variety of weather and seasonal situations. (Tornado, thunderstorm, hurricane, snow, rain, heat) **SCI-WEA.4A**
  - b Explain what causes a variety of changes on earth and demonstrate behaviors that address these changes **SCI-WEA.4B**
  - c Take correct actions during emergency weather situations **SCI-WEA.4C**
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**Measurement - The student compares and analyzes a collection of quantitative data in relation to specific scientific investigations** **SCI-MEAS**

#### 1 Recognize and Recall

- a Sort between something that is a number and something that is not (Quantitative and Qualitative data) **SCI-MEAS.1A**
  - b Choose two different objects (big to small, heavier to lighter, longer to shorter) **SCI-MEAS.1B**
  - c Tell whether it is day or night **SCI-MEAS.1C**
  - d Tell which season we are currently in **SCI-MEAS.1D**
  - e Recognize money **SCI-MEAS.1E**
  - f Identify common measurement tools (ruler, scale, measuring cups and spoons, thermometers) **SCI-MEAS.1F**
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#### 2 Identify and Comprehend

- a Choose and identify quantitative data **SCI-MEAS.2A**
  - b Label objects or numbers from smallest to largest and vice versa **SCI-MEAS.2B**
  - c Tell time by the hour by digital clock **SCI-MEAS.2C**
  - d Identify all seasons by images **SCI-MEAS.2D**
  - e Sort money from highest amount to the least amount **SCI-MEAS.2E**
  - f Identify methods for measuring length, weight, volume, and temperature **SCI-MEAS.2F**
  - g Recognize measuring tools by labeling **SCI-MEAS.2G**
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#### 3 Interpret and Understand

- a Practice lab methods skills while interpreting, organizing, and understanding the corresponding data **SCI-MEAS.3A**
- b Create a graph or image by applying appropriate data **SCI-MEAS.3B**
- c Tell time by the hour by digital and analog clocks **SCI-MEAS.3C**
- d Accurately measure with appropriate measuring tools while incorporating accurate abbreviations **SCI-MEAS.3D**
- e Recognize the difference between acidic and basic examples **SCI-MEAS.3E**

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#### 4 Apply and Generalize

- a Demonstrate measurement skills by observing and analyzing data in a variety of settings **SCI-MEAS.4A**
  - b Use a variety of information to verify statements, construct number types of graphs with sets of data and demonstrate understanding of graphs and images **SCI-MEAS.4B**
  - c Apply acquired measurement skills to daily activities **SCI-MEAS.4C**
  - d Verify the acidity and basic measurement in a variety of settings **SCI-MEAS.4D**
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**Safety - The student follows safety guidelines and demonstrates proper safety techniques. WRS:**

**11** **SCI-SAFETY**

#### 1 Recognize and Recall

- a Discriminate between a safe and non-safe environment **SCI-SAFETY.1A**
  - b Match guidelines to equipment **SCI-SAFETY.1B**
  - c List different safe and non-safe scenarios **SCI-SAFETY.1C**
  - d Point to incorrect and correct safety techniques being demonstrated by teacher and students **SCI-SAFETY.1D**
  - e Follow safety rules in all environments **SCI-SAFETY.1E**
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#### 2 Identify and Comprehend

- a Identify safety guidelines and techniques that accompany safety equipment **SCI-SAFETY.2A**
  - b Label safety rules and procedures **SCI-SAFETY.2B**
  - c Recognize and use caution around known hazards (electricity, poison) at all times **SCI-SAFETY.2C**
  - d Label appropriately safe and non-safe situations **SCI-SAFETY.2D**
  - e Identify emergency and non-emergency situations **SCI-SAFETY.2E**
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#### 3 Interpret and Understand

- a Practice safety methods by incorporating acquired safety knowledge to create and maintain a safe environment **SCI-SAFETY.3A**
- b Maintain a clean safe environment to prevent accidents **SCI-SAFETY.3B**
- c Verify all instructions before beginning tasks **SCI-SAFETY.3C**
- d Apply safety rules and procedures and consistently use all necessary safety equipment **SCI-SAFETY.3D**

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#### 4 Apply and Generalize

- a Maintain a safe environment by demonstrating safety guidelines in appropriate settings **SCI-SAFETY.4A**
  - b Follow guidelines with safety equipment at all times and in all settings **SCI-SAFETY.4B**
  - c Apply safety precautions to all situations and environments **SCI-SAFETY.4C**
  - d Verify with teacher/employer/job coach that work areas are in a safe and working manner **SCI-SAFETY.4D**
  - e Actively demonstrate ways to avoid injury to self and others in all environments **SCI-SAFETY.4E**
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**Science as Inquiry - The student demonstrates an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations.** **SCI-INQ**

#### 1 Recognize and Recall

- a Respond and list steps to scientific investigations with assistance **SCI-INQ.1A**
  - b Sort picture cards based on a variety of features, functions and classes **SCI-INQ.1B**
  - c Match concepts with images **SCI-INQ.1C**
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#### 2 Identify and Comprehend

- a Identify specific steps to scientific investigation through logical reasoning **SCI-INQ.2A**
  - b Identify the question/problem through scientific investigation **SCI-INQ.2B**
  - c Follow steps to conduct research **SCI-INQ.2C**
  - d Identify a hypothesis in a group setting **SCI-INQ.2D**
  - e Recognize respect for living things **SCI-INQ.2E**
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#### 3 Interpret and Understand

- a Apply informed decisions regarding contemporary issues **SCI-INQ.3A**
- b Describe respect for living things **SCI-INQ.3B**
- c Utilize a costs/benefits analysis when making decisions (pros/cons) **SCI-INQ.3C**
- d Apply question/problem; compile pertinent information; form a hypothesis. (make educated guess as to why an event occurred) **SCI-INQ.3D**
- e Make and justify decisions based on pertinent data **SCI-INQ.3E**
- f Maintain proper use of technology and equipment **SCI-INQ.3F**

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#### **4 Apply and Generalize**

- a Apply an experimental design in scientific inquiry **SCI-INQ.4A**
- b Demonstrate the language of science **SCI-INQ.4B**
- c Demonstrate respect for living things **SCI-INQ.4C**
- d Apply and demonstrate acquired scientific skills to everyday experiences independently (using gathered information to make decisions) **SCI-INQ.4D**
- e Maintain proper use of technology and equipment **SCI-INQ.4E**