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NEXT GENERATION SCIENCE STANDARDS For States, By States

New Vision International School

interactive SCIENCE

WORKBOOK

Grade 1 - ESL

SEMESTER 1

Name: _____

Class: _____

Teacher: _____

PEARSON

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GRADE 1

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Part 2 The Design Process

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Part 1

Name: _____ Date: ____ /____ / ____

Lesson 1: What Questions Do Scientists Asks? (use with pages 154 – 157)

Words to Know: Write the word next to the description it matches.

Inquiry ***Scientists*** ***Discovery***

1. _____ are people who asks question about the world around them.
2. _____ means looking for answers.
3. _____ is a new thing or idea.

True or False: Write T if the statement is correct and F if not.

_____ 4. Scientists ***ask and answer questions***.

_____ 5. Discoveries ***cannot change*** our lives.

_____ 6. Scientists ask questions ***about many things***.

_____ 7. Scientists ***do not*** use inquiry.

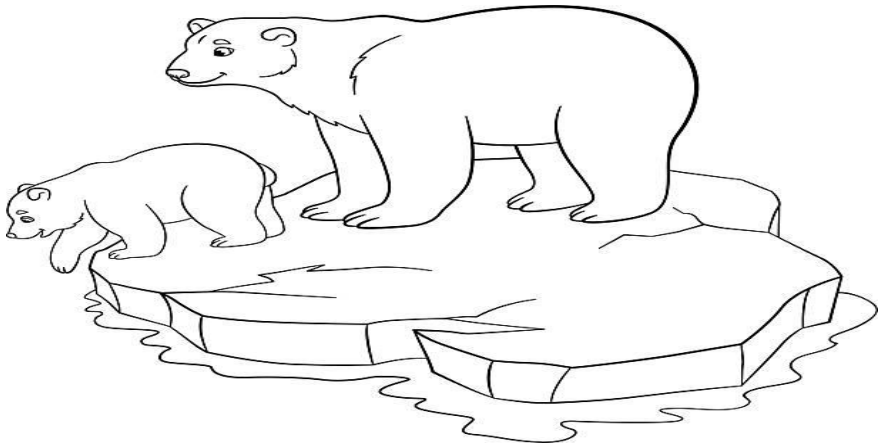
Explain

8. What is something that scientists do?

Scientists _____

Apply Concepts

9. Look at the picture. Think about something you could investigate. Write a question you could ask about what you see.



Name: _____ Date: ____ /____ / ____

Lesson 2: What Skills Do Scientists Use? (use with pages 158 – 161)

Words to Know: Write the word next to the description it matches.

Observe ***Predict*** ***classify***

1. _____ is when you use your senses.
2. _____ is when you tell what might happen next.
3. You _____ when you group things by how they are alike.

True or False: Write T if the statement is correct and F if not.

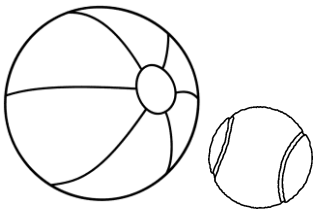
_____ 4. You have ***three senses*** to observe the world around you.

_____ 5. When you predict, you ***tell what might happen next***.

_____ 6. You observe when you ***use your senses***.

_____ 7. We use ***our eyes*** to identify colors.

Apply Concepts



8. Look at the picture of the two objects.
   Compare the objects. Write one way they are the same.

_____

_____

_____

_____

_____

_____

9. Write one way they are different.

_____

_____

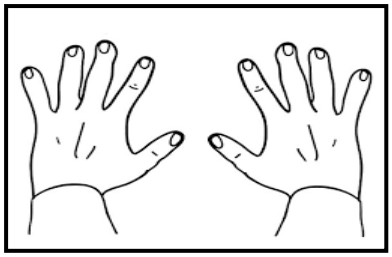
_____

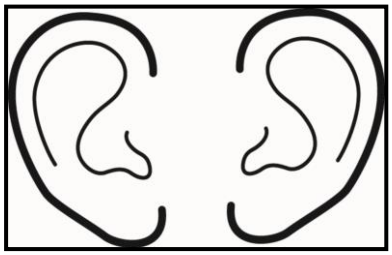
_____

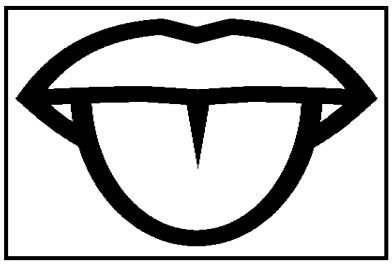
_____

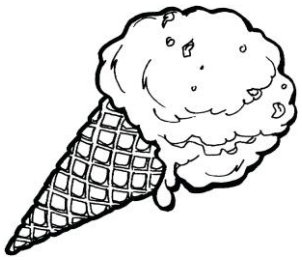
_____

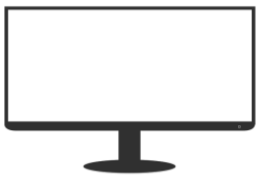
Matching: Draw a line to match the following pictures.











Name: _____ Date: ____ /____ / ____

Lesson 3: How Do Scientists Use Tools? (use with pages 162 – 167)

Words to Know: Write the word next to the description it matches.

Tool ***Measure*** ***Safety*** ***Estimate***

1. _____ means staying out of danger.
2. _____ is something that makes work easier .
3. _____ means to use a tool to find the size or amount of something.
4. _____ a careful guess about the size or amount of something.

True or False: Write T if the statement is correct and F if not.

_____ 5. A hand lens makes objects ***look smaller***.

_____ 6. A rain gauge measures ***how much rain has fallen***.

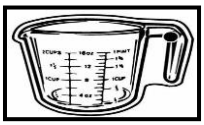
_____ 7. A clock measures the ***mass of an object***.

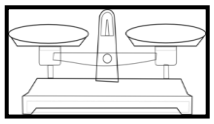
_____ 8. A ruler measures ***how long*** something is.

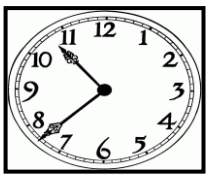
Apply Concepts

9. Draw about how you can stay safe when you do science activities in the laboratory.

Matching: Draw a line to match the picture to its name.







Measuring Cup

Clock

Pan balance

Thermometer

Microscope

Hand Lens

Circle the safety rules that you should follow in the laboratory.

1. *Clean spills immediately.*
2. *Wear safety goggles if needed.*
3. *No need to tie your hair if it is long.*
4. *Do not wear gloves.*
5. *Handle scissors and other equipment carefully.*
6. *Keep your workplace dirty.*
7. *Tell your teacher immediately about accidents.*
8. *Do not listen to your teacher's instruction.*

Name: _____ Date: ____ /____ / ____

Lesson 4: How Do Scientists Find Answers? (use with pages 168 – 171)

Words to Know: Write the word next to the description it matches.

Scientific methods ***Investigate***

1. _____ are steps that help you investigate.
2. _____ means to look for answers to questions.

True or False: Write T if the statement is correct and F if not.

_____ 3. Scientific methods have ***many steps***.

_____ 4. You only have to do your test ***once***.

_____ 5. You ***ask questions*** when you do science.

_____ 6. You ***investigate*** to find answers.

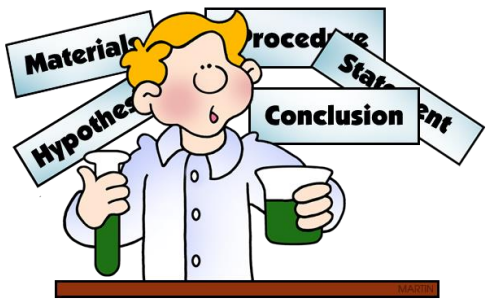
Apply Concepts

7. A scientist wants to know if seeds need water to grow. The scientist has seeds, two pots, some soil, and a watering can. Draw and label the picture to show how you would plan a test.

Write the missing steps in the scientific method listed below.

Plan	***question***	***test***
Collect	***hypothesis***	***conclusion***

1. Ask a _____
2. Make your _____
3. _____ a fair test
4. Do your _____
5. _____ and record data
6. Draw a _____



Name: _____ Date: ____ /____ / ____

Lesson 5: How Do Scientists Share Data? (use with pages 172 – 175)

Words to Know: Write the word next to the description it matches.

Data ***Record*** ***Chart***

1. _____ is the information you collect.
2. _____ is when scientists write or draw what they learn.
3. _____ is a way to record data.

True or False: Write T if the statement is correct and F if not.

_____ 4. You can ***only use words*** to show what you observe.

_____ 5. Charts and graphs ***can be used*** to show data.

_____ 6. A chart is a way ***to record data***.

_____ 7. You ***cannot*** use graphs to show your data.

Apply Concepts

8. You investigated what fruit your family members like to eat. You found that:

Orange 						
Apple 						
Banana 						

Ask your classmates what their favorite animal is. Draw one animal for each vote. You can use the blank row to add a new animal.

Animal	*Votes*					
Dog						
Cat						
Bird						

Draw Conclusions: What is your class' favorite animal?

Name: _____ Date: ____ /____ / ____

Lesson 1: What Is Technology? (use with pages 200 - 203)

Words to Know: Write the word next to the description it matches.

Technology ***cars***

1. _____ is using science to help solve problems.
2. People use _____ to get from place to place.

True or False: Write T if the statement is correct and F if not.

_____ 3. Scientists ***use technology*** to make discoveries.

_____ 4. A telephone is ***not*** a technology.

_____ 5. Technology ***helps people*** stay safe.

_____ 6. Safety seats help ***keep children safe***.

Explain: Answer the questions below.

7. A seat belt is technology. Write how it helps people.

It helps people _____

8. Draw an example of technology. Tell how it solves a problem.

Apply Concepts

9. Look at the picture. Circle two kinds of technology that you can see.

Write how each one helps people.

Name: _____ Date: ____ /____ / ____

Lesson 2: What Are Objects Made Of? (use with pages 204 - 207)

Words to Know: Write the word next to the description it matches.

Natural ***Human – made***

1. _____ is something made by people.
2. _____ is something not made by people.

True or False: Write T if the statement is correct and F if not.

_____ 3. Wood and cotton are ***human – made***.

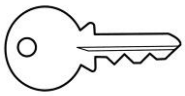
_____ 4. Rocks and minerals are ***natural***.

_____ 5. People use cotton to ***make clothes***.

_____ 6. A chair can be made of ***plastic and wood***.

Explain: Look at the objects. Write N if it is natural and HM if it is human – made.

_____



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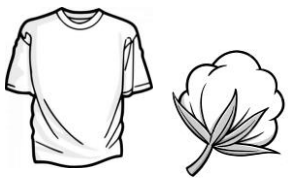

_____

_____

Apply Concepts

You have an apple and plastic lunch box. Which is a natural material? Which is made by people? Explain how you know it.

Name: _____ Date: ____ /____ / ____

Lesson 3: What Is the Design Process? (use with pages 208 - 213)

Words to Know: Write the word next to the description it matches.

Goal ***Solution***

1. _____ is something that solves a problem.
2. _____ is something you want to do.

True or False: Write T if the statement is correct and F if not.

_____ 3. Identify a problem is the ***last step*** in the design process.

_____ 4. You have to ***plan and draw*** when you design something.

_____ 5. You have to ***choose the materials wisely***.

_____ 6. ***Don't show*** others how your solution meets your goal.

Read the steps of the design process. Number them in order.

Steps of the Design Process

◯ Record and share	◯ Choose materials
◯ Plan and draw	◯ State a goal
◯ Make and Test	◯ Find a problem

Apply Concepts

Look at the given picture below. Solve the problem using the design process. First, list your goal, then explain how you would test your plan.

The problem is:

We can solve the problem by

First,