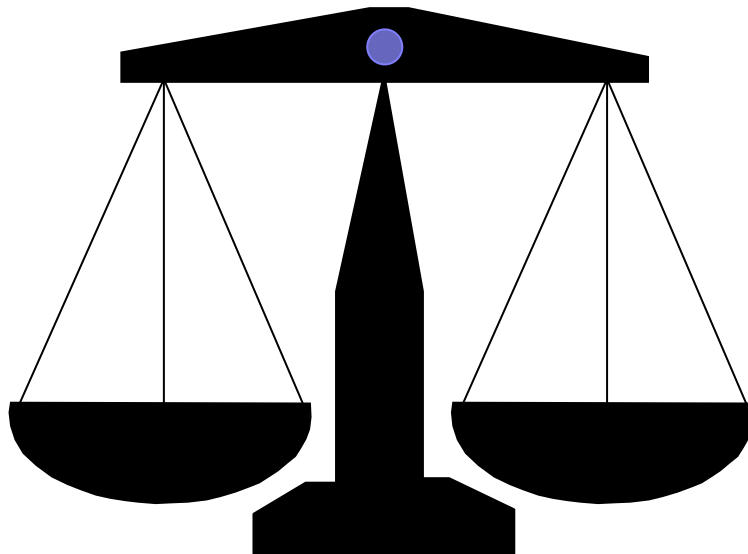


ELEMENTARY SCIENCE PROGRAM
MATH, SCIENCE & TECHNOLOGY EDUCATION

Elementary Science Program Assessment
3rd grade

Student Answer Book



Name _____

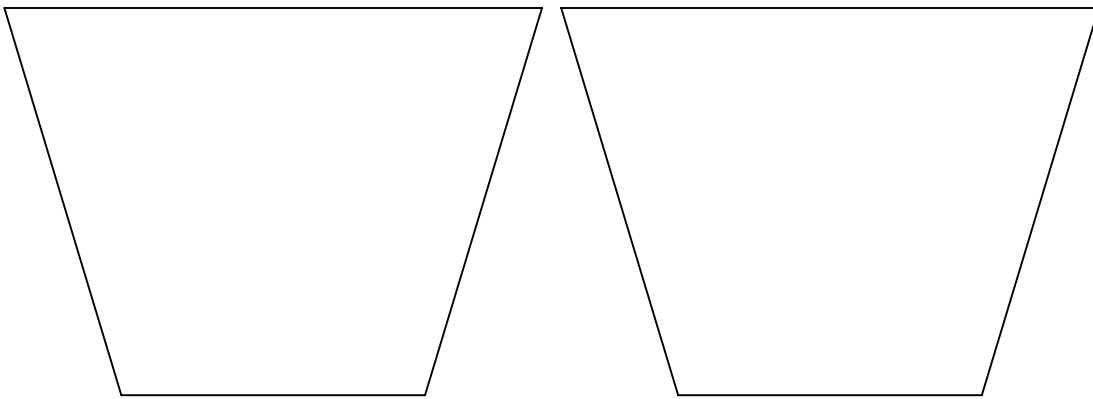
This activity book contains the answer sheets students are to complete at each of the five stations.

**Answer Sheet for Station 1 -
Density**

Name _____

Place a wood ball in each cup of water.

1. Compare how the wood ball floats in the liquid in each cup. Draw a picture of your observation.



2. Write one sentence describing how the wood balls float differently in the liquid.

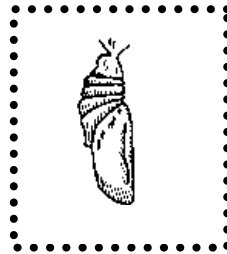
3. Write two questions you would like answered that would help you explain why one wood ball is floating differently than the other wood ball.

Your questions should be about different properties.

Question 1:

Question 2:

1. Cut out the pictures of the butterfly life cycle.



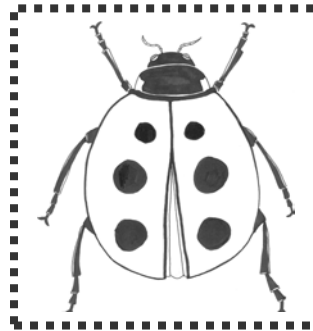
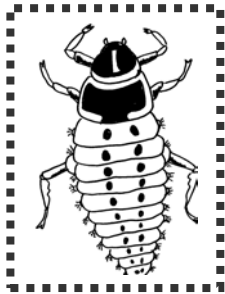
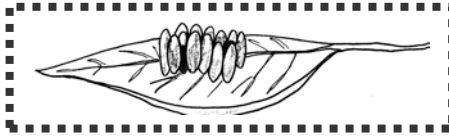
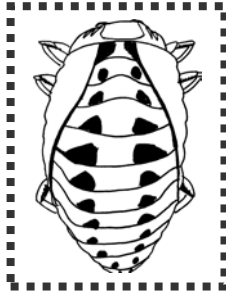
2. Paste the pictures of the butterfly life cycle in order in the top row of boxes below.

Name each stage on the line in the top row of boxes.

In one sentence, explain the importance of each stage.

1	2	3	4
<hr/>	<hr/>	<hr/>	<hr/>
Importance:	Importance:	Importance:	Importance:

3. Cut out the pictures of the ladybug life cycle.



4. The ladybug also has a four stage metamorphosis.

Paste the pictures of the ladybug life cycle in order in the boxes below.

Name each stage on the line in the boxes below.

1	2	3	4
<hr data-bbox="131 1136 435 1146"/>	<hr data-bbox="472 1136 776 1146"/>	<hr data-bbox="821 1136 1125 1146"/>	<hr data-bbox="1182 1136 1485 1146"/>

5. Look closely at the pictures of the butterfly and moth at this station.

- Identify which is a butterfly and which is a moth.
- List 2 things that helped you identify each.

Picture A shows a...



Picture B shows a....



1.

2.

1.

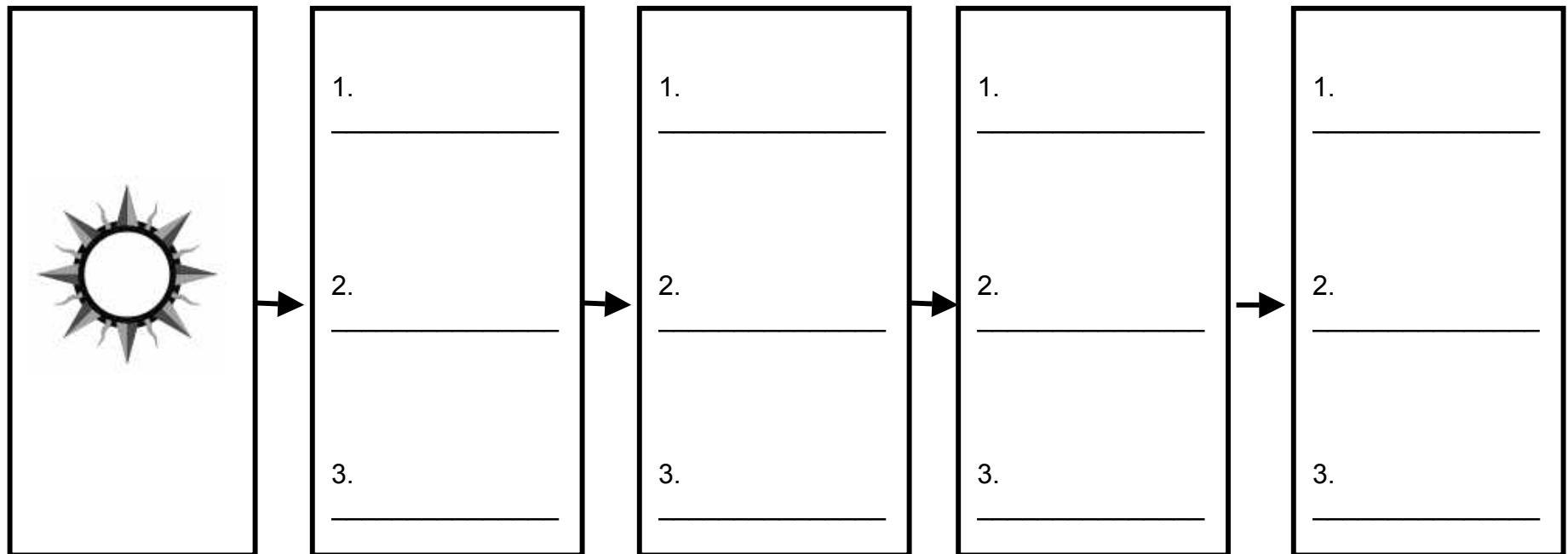
2.



Answer Sheet for Station 3 –Food Chains

Name _____

1. Use the cards at the station to create a food chain. Write down the names of the plants and animals in food chain on line #1 in the boxes below.



2. On line #2 in the boxes above, write if the animal or plant is a **producer** or **consumer**.
3. On line #3 in the boxes above, write if the animal is a **herbivore**, **carnivore**, or **omnivore**. Use the cards to help you.

4. Name two things that could effect a food chain.

A. _____

B. _____



Answer Sheet for Station 4 –Energy Forms Name _____

1. Use the double pan balance to find the mass of the unpopped popcorn.

	MASS
35 popcorn kernels	

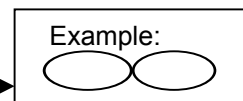
2. What would happen to the mass if the popcorn was dried? Explain.

3. What would happen to the mass of the popcorn if the popcorn was soaked in water? Explain.

4. How many centimeters long are the 35 unpopped kernels?

Place the kernels in the groove in the center of the centimeter ruler to help you with the measurement.

Place the popcorn kernels in the groove “end to end” →



	LENGTH
35 popcorn kernels	

5. Examine the four pictures at this station. Each picture shows an object that uses one form of energy that then changes to another form of energy.

- Read each statement in the chart below describing an energy change.
- Write the name of the object from the picture card next to the type of energy change that takes place in that object.

(Note: One object on the picture card will not be used for an answer.)

ENERGY CHANGE	OBJECT FROM PICTURE CARD
Electrical energy to light energy	
Electrical energy to heat energy to mechanical energy	
Electrical energy to light and sound energy	

Answer Sheet for Station 5 – Displacement

Name _____

1. Use the double pan balance to find the mass of the glass ball and the black rubber ball.

BALL	MASS
GLASS BALL	
BLACK RUBBER BALL	

- Fill each medicine cup with 20 ml of water
- Place each ball in a medicine cup.
- Compare the water levels when you place both balls in the medicine cup.

Water Level with Balls in the Water	Subtract	Beginning Water Level	Volume
	-		
	-		

3. Explain why there is a change in water level.

4.

- The glass ball and the black rubber ball have different masses.
- There is a similar change in water level when each ball is placed in the water.

Explain why.
