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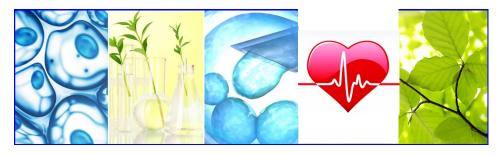


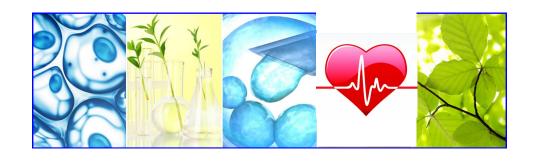












Science Expo 2023

Life Science & Health Fair **Answer Key**

Name:				
Date:				



Organisms and Ecosystems

Food Chains

Food Chain Aim:	<u> Producers</u>	create their own food		
using energy from the sun (through photosynthesis).				
<u>Consumers</u> get their energy by eating other				
organisms. <u>De</u>	composers	act as nutrient recyclers in		
the ecosystem by bre	eaking down dea	d and decaying organisms.		



On the Ground and Beneath the Surface:

Producers, consumers, and decomposers are all important parts of a

food chain.



Tahoe Plankton: Zooplankton play an important role in Tahoe's food web. They eat ____algae/

phytoplankton_____ and are eaten by

fish



Gone Fishin' in Lake Tahoe:

Name one fish found in Lake Tahoe. Is it native or non-native?

Answers will vary



Life Cycles

Pumpkins and Butterflies and Frogs, Oh My!:

Many animals and plants go through similar stages during their life cycles.



Health and Nutrition

Anatomy and Physiology

A Bone of Your Own: Your _	balance	is based on
posture and the movement of	of your <u>skeleto</u>	<u>1</u> .

Nutrition and Wellness

Re-Think Your Drink: Students should be getting no more than <u>3-5</u> teaspoons of added sugar a day.

Germy Transfer: Germs are tiny living organisms that spread disease and make you sick. Name one or more ways you can prevent the spread of germs.

Answers will vary. Examples: Wash your hands, cough into your elbow, etc.

Anatomy and Physiology (Hallway)

Play to Your Strength: Give two reasons why it's important to exercise. Answers will vary. Examples: Exercise strengthens muscles, strengthens joints, strengthens bones, prevents injury, improves endurance, etc.

Your Amazing Heart: Your heart is a muscle that pumps ____blood___ and circulates it around your body.



Health and Nutrition

Brain

Train Your Brain: Every time you learn something new you change the structure of your brain.

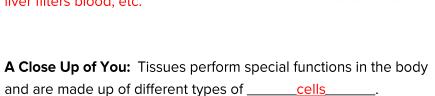


True or False (circle one)

Think Fast!:	Reactions	are voluntary or something
you control,	<u>reflexes</u>	are involuntary and happen
without your con	trol.	
_	ou perceive and e	rick your brain , experience your sense of touch,
	Championship Ga nefits society the	me: What technology did your most?
Answers will vary	y .	
Anatom	ny and Physiolog	y .

Name That Organ: Name one organ and the role it plays in your body.

Answers will vary. Examples: heart circulates blood, lungs circulate oxygen, liver filters blood, etc.

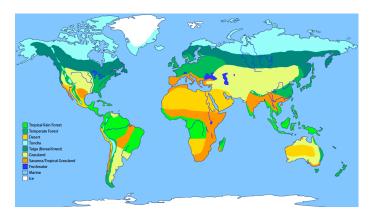


Organisms and Ecosystems

Ecosystem Diversity

Bioramas: Organisms have specific physical and behavioral adaptations that allow them to survive in particular biomes.

True or False (circle one)



Meet the Microbes: A <u>microbe</u>
is a tiny, microscopic organism found in water, soil, and in us!

Living Together: Name two organisms that have a symbiotic relationship.

Answers will vary

Plant Processes

In Search of Pollen: Pollination is the process by which ______ is transferred to the female reproductive organs of a plant, thereby enabling fertilization.



Planting Party: Which four things do plants need to grow?

1.	<u>sunlight</u>	2	water
3.	_ CO ₂	4	nutrients/soil

Inheritance and Adaptation

Plant Adaptations

Pollination Adaptations: The color, shape, and smell of different flowers are adaptations that help the plant to attract pollinators.

True or False (circle one)







Seeds on the Move: What is one way a seed can travel? Wind, water, on animals, in animals

Animal Adaptations

Natural Selection in Action: What process caused the moth population to change over time? Natural selection

Brilliant Bird Beaks: The shape of a bird's beak is an <u>adaptation</u> for gathering specific food.



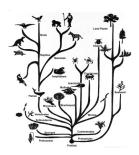
Blubber Glove: What helps animals living in arctic waters stay warm and keep afloat? Blubber

Inheritance and Adaptation

Diversity of Life

Tree of Life: All living things are related. True or False (circle one)





Inheritance

DNA Recipes: A	All living things have their own u	nique code called
<u>DNA</u>	that is located inside their _	<u>cells</u> .

Fruit and Veggie DNA: Name an example of one thing that has DNA and one thing that does not have DNA.

Answers will vary. All living organisms (humans, strawberries, peas, etc.) have DNA. Non-living things (desks, rocks, etc.) do not have DNA.

The Adaptation Game: Living t	hings evolve certain	
<u>traits</u> , called	<u>adaptations</u>	, which help
them live in their environment.		