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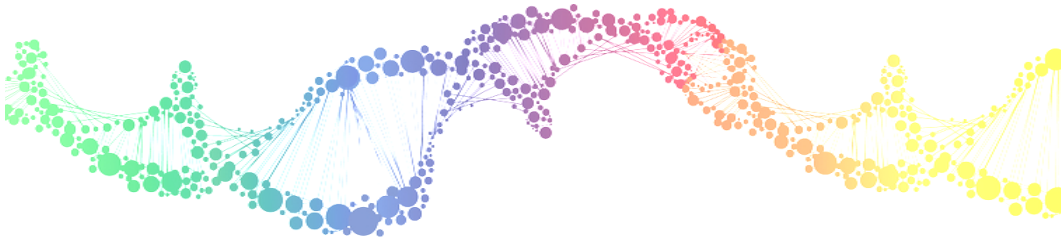


Science Expo 2018

Life Science & Health Fair

Answer Key

Name: _____

Date: _____

UC DAVIS TAHOE ENVIRONMENTAL RESEARCH CENTER

Life Science Expo & Health Fair

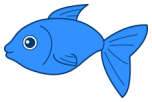
Organisms and Ecosystems

Food Chains

Food Chain Aim: _____Producers_____ create their own food using energy from the sun (through photosynthesis). _____Consumers_____ get their energy by eating other organisms. _____Decomposers____ act as nutrient recyclers in the ecosystem by breaking down dead and decaying organisms.

On the Ground and Beneath the Surface:

Producers, consumers, and decomposers are all important parts of a _____food_____ chain.



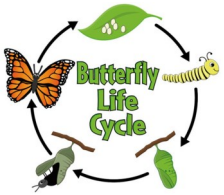
Tahoe Plankton: Zooplankton play an important role in Tahoe's food web. They eat _____algae/phytoplankton_____ and are eaten by _____fish_____.

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.
True or **False** (circle one)

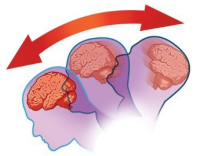


Health and Nutrition

Anatomy and Physiology

A Bone of Your Own: Your _____balance_____ is based on posture and the movement of your _____skeleton_____.

Brain Waves: You get a concussion when your soft brain whacks against the inside of your ___skull____. Name one symptom of a concussion: Answers will vary. Examples: headache, nausea, blurry vision, etc.



What is the best way to prevent a concussion when you do potentially dangerous activities? Wear a helmet

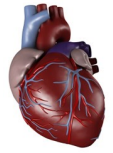
Nutrition and Wellness

Re-Think Your Drink: Students should be getting no more than _____3-5_____ 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

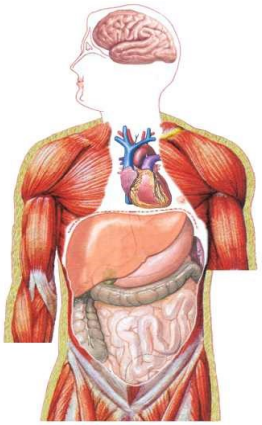
Train Your Brain: Every time you learn something new you change the structure of your brain.
True or **False** **(circle one)**

Think Fast!: _____Reactions_____ are voluntary or something you control, _____reflexes_____ are involuntary and happen unintentionally.

Confusing the Senses: Illusions trick your _____brain_____, changing how you perceive and experience your sense of touch, taste, hearing, smell, or sight.

Anatomy and Physiology

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.



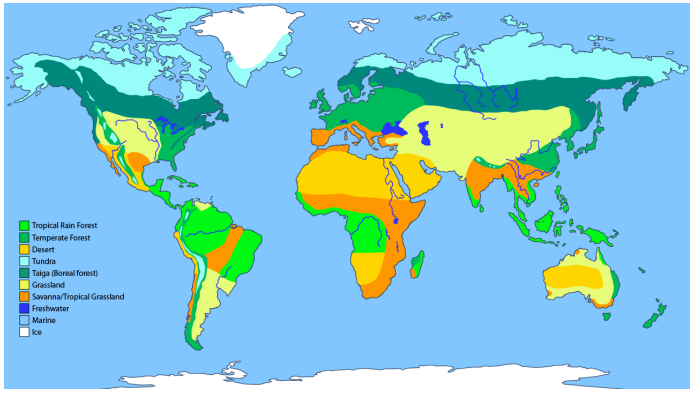
Don't Hold Your Breath: Your respiratory system transports _____oxygen_____ from the air into your lungs, and _____carbon dioxide_____ from your lungs into the air.

A Close Up of You: Tissue performs special functions in the body and is made up of _____cells_____.

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)



Magical Microbes: A _____microbe_____ 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 _____pollen_____ is transferred to the female reproductive organs of a plant, thereby enabling fertilization.

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

1. __sunlight__ 2. ___water___ 3. __CO_2__ 4. _nutrients/soil__

Inheritance and Adaptation

Plant Adaptations

Flower Engineers: The color and shape of different flowers are adaptations that help the plant to attract pollinators.
True or False (circle one)

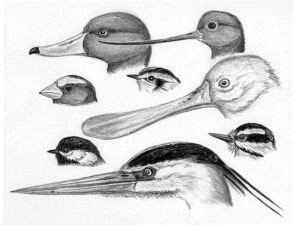


Seeds on the Move: What is one way a seed can travel?
Wind, water, on animals, in animals

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 _____adaptation_____ for gathering specific food.

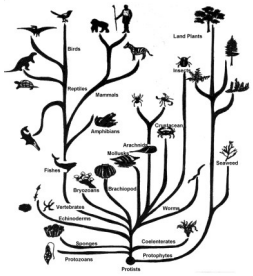


Blubber Glove: What helps animals living in arctic waters stay warm and keep afloat?
Blubber

When Do I Rise?: Name one animal that is nocturnal, one that is diurnal, and one that is crepuscular. Answers vary: Examples of nocturnal: owls, bats, mice, squirrel, moths, raccoons, beetles, porcupines; Examples of diurnal: most butterflies, humans, squirrels, hawks, bees, Western tanagers, Mountain chickadees, American pikas, woodpeckers; Examples of crepuscular: rabbits/hares, Mule deer, skunks, Mountain lion, bobcat, bears

Inheritance and Adaptation

Diversity of Life



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

Inheritance

DNA Recipes: All living things have their own unique code called _____DNA_____ that is located inside their _____cells_____.

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.

In TCES Room 215

Crazy Traits: Different organisms vary in how they look and function because they have different inherited information from their _____parents_____.

These _____traits_____ are based on chance.