

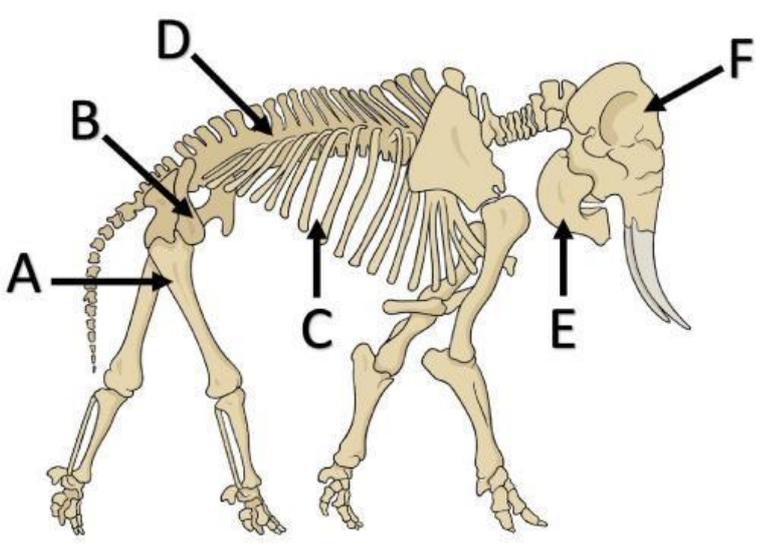
GRADE 3 CAMBRIDGE SCIENCE SEMESTER 1 Practice Test

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Unit 1:

1.1 - Bones and skeletons

1. Choose the correct word to label the skeleton: [6pts]

		skull	jaw
		rib cage	hip
		thigh bone	spine
	A		
	B		
	C		
D			
E			
F			

1.2 - Why we need a skeleton

2. Choose the correct word from the box to complete the description of the skeleton functions: [4pts]

grow      protected      move      support
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Our body is given shape by the skeleton which provides a frame to _____ or hold it up.
We _____ because our skeletons get bigger as we get older.
Our skeleton allows us to jump, run, swim and _____ in lots of other ways.
The main organs of the body are _____ by the skeleton.

1.3 - Skeletons and movement

3. Choose the correct answer to complete the sentences: [4pts]

	When muscle A <b>contracts / relaxes</b> , muscle B <b>contracts / relaxes</b> .
	When muscle C <b>contracts / relaxes</b> , muscle D <b>contracts / relaxes</b> .
	When muscles contract, they get <b>longer / shorter</b> .
	When muscles relax, they get <b>longer / shorter</b> .

1.4 - Different kinds of skeletons

4. Choose the correct word to match each animal: [5pts]

*	*	*	*	*	*
*	*	*	*	*	*
mammal	bird	invertebrate	amphibian	reptile	fish

1.5 - Medicines and infectious diseases

5. Answer true or false: [4pts]

Vaccinations can prevent us from getting sick.	TRUE	FALSE
An inhaler is used to treat skin problems such as rashes or bites.	TRUE	FALSE
Tablets are usually injected directly into the blood.	TRUE	FALSE
You can use creams or ointments for a cough.	TRUE	FALSE
It is okay to take someone else's medicine.	TRUE	FALSE
Infectious diseases are caused by germs.	TRUE	FALSE
Plants can get infectious diseases.	TRUE	FALSE
Medicines can kill germs.	TRUE	FALSE

**Unit 2:**

6. Answer true or false: [6pts]

Energy is not something we can see or touch but we can see its effects.	TRUE	FALSE
Children get their energy from playing sports.	TRUE	FALSE
We create movement energy when we do physical activities like running.	TRUE	FALSE
We transfer movement energy from our legs and feet to a ball when we kick it.	TRUE	FALSE
Energy can change from one form to another.	TRUE	FALSE
Heat energy from a flame that dies down spreads out so much that we cannot feel it anymore.	TRUE	FALSE

7. Label the type of energy in the following pictures. [3pts]

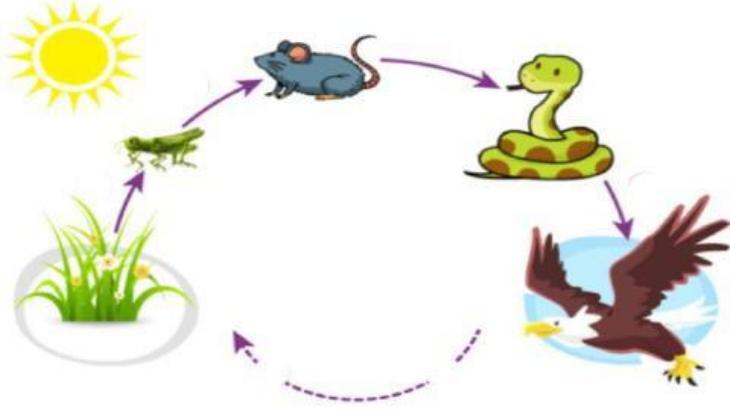
	light	electricity	movement
	heat	sound	wind
	sound	light	electrical

8. Identify the energy transfers and the energy changes in the following images. [4pts]

	What energy was transferred?
	heat    sound    light    movement
	What energy was it changed into?
	heat    sound    light    movement

	What energy was transferred? electrical    movement    light    wind
	What energy was it changed into? electrical    movement    light    wind

9. Look at the food chain and answer questions that follow. [4pts]

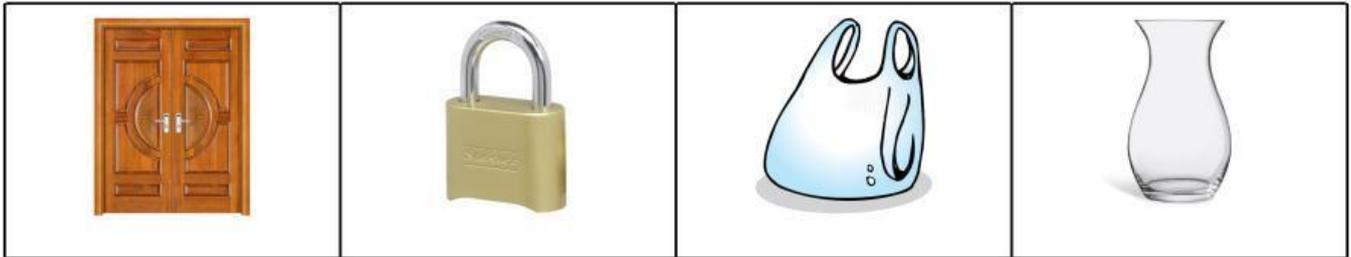
	
How many producers are in this food chain?	1    2    3    4    5
How many consumers are in this food chain?	1    2    3    4    5
Circle all the predators in this food chain.	grass    grasshopper    mouse    snake    hawk
Circle all the animals that are both prey and predator.	grass    grasshopper    mouse    snake    hawk

10. Answer the True or false questions below: [3pts]

A food chain must always have at least one producer and at least two consumers.	TRUE    FALSE
All producers are plants and most consumers are animals.	TRUE    FALSE
The main source of energy in all food chains is the sun because plants need sunlight to make their food.	TRUE    FALSE

### Unit 3: Materials

11. Label the types of materials: [3pts]



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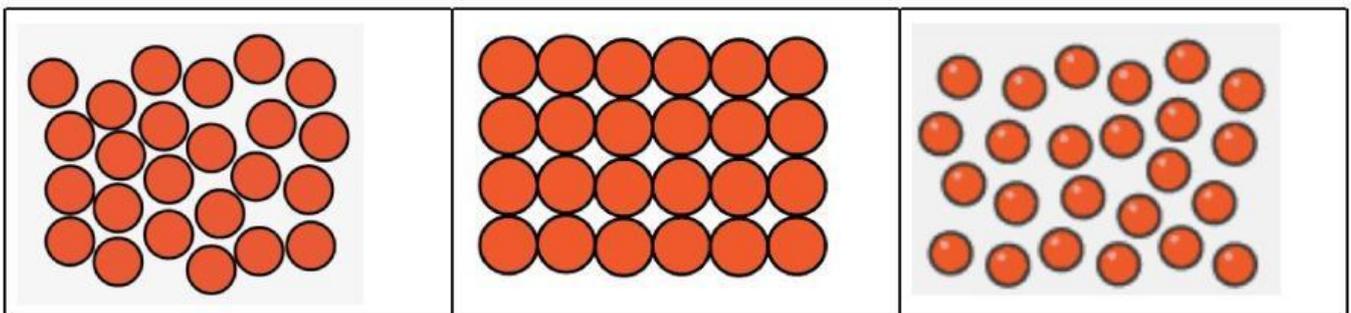
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metal	glass	plastic	wood
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12. Choose TRUE or FALSE for the statements below: [3pts]

All materials are made of matter and matter is made up of particles.	TRUE    FALSE
Particles in solids are packed tightly together and don't move.	TRUE    FALSE
Substances cannot change their states.	TRUE    FALSE

13. Look at the particle models below and choose which state they represent: [3pts]



\*

\*

\*

\*

\*

\*

solid	gas	liquid
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14. Match the beginnings of the sentences with their endings to make true statements: [5pts]

The particles in a solid are held together strongly.	*	because the particles can move around more freely.
The particles in a liquid are separated by larger spaces.	*	These spaces allow the particles to move and slide past each other.
A solid has a fixed shape and a fixed volume	*	They may flow freely and take the shape of a container.
A liquid takes the shape of its container	*	They have hardly any space between particles so they can not easily move.
Powders are bulk solids composed of many very fine particles.	*	because the particles can only vibrate in place and do not change position.

15. Look at the picture and answer the following questions: [3pts]

			
In what state is the chocolate when a person puts it in the pot?	solid	liquid	gas
In what state will the chocolate be after heating?	solid	liquid	gas
What is the change of state called?	melting	solidifying	
	natural process	chemical reaction	

16. Choose the best answer for each of the questions below: [2pts]

	*	Its particles slow down and move closer together.
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What happens when the liquid loses heat energy and cools? \*

\* Its particles move faster and get further apart.

\* Its particles keep moving at the same speed.

What happens when the solid gets heat energy? \*

\* Its particles move faster.

\* Its particles move slower.

\* Its particles keep moving at the same speed.

18. Look at the pictures and decide if chemical reactions have taken place or not: [2pts]

		
chemical reaction		no chemical reaction

		
chemical reaction		no chemical reaction