



Grade 4

WORLD SCIENCE CHAMPIONSHIP 2024

Total Questions: 35

Total Marks: 35

Time: 1hr

Set: B

General Instructions for the Examinee

Opening Instructions:

Welcome to the world Maths Championship. Before we commence, please pay close attention to the following instructions:

- Electronic devices such as cell phones and MP3 players must be turned off.
- Do not share or exchange materials with other students.
- Unauthorized aids are strictly prohibited and its use can lead to disqualification.
- Calculators are not allowed for Grade 1-5
- Scientific Calculators are allowed for Grade 6-8
- Refrain from consulting notes, textbooks, teachers, or other students regarding the exam materials.

Instructions for Filling Student Details in OMR Sheet and Signing the Attendance sheet:

There will be a ten-minute break for students to fill in the details

Filling Student Details:

- Please refer to the instructions at the back of the OMR sheet for proper completion your details.

Signing Attendance sheet:

- Ensure you have signed the attendance sheet and OMR sheet provided.
- Invigilator should also sign your OMR sheet in the space provided.

marks - Total 35 marks.

- Grades 5 to 8: 50 questions of 1 mark each, there is no negative marking and if you skip/leave a question no marks will be given but also no marks will be deducted as -ve marks - Total 50 marks.

- Darken the circle corresponding to your chosen answer on the OMR sheet.
- Ensure you darken circles completely. Questions that do not have the darker circle are considered unanswered and will be counted wrong.
- You have 60 minutes to complete the exam.
- Note that you can choose only one answer – if you mark another response, that question will be disqualified.
- If you finish before the time is up, raise your hand, and the invigilator will collect your sheet for scoring. When you are finished and your OMR Sheet is collected, please leave the room quietly.

Instruction for Taking Examination:

- The question paper has been sealed by a reverse jacket. You have to cut on the right side to open the paper at the time of commencement of the examination. Check whether all the pages of the question paper are intact.
- This Examination is multiple-choice based, with either 4 options, 3 options or 2 options for each question.
- Each grade level has specific question formats and durations:
 - Grades 1 to 4: 35 questions of 1 mark each, there is no negative marking and if you skip/leave a question no marks will be given but also no marks will be deducted as -ve

Thank you for your attention, and best of luck with the World Maths Championship!

Question: 1 of 35

QID: 685

Marks : 1

What properties do they have in common



- A. yellow B. salty
- C. translucent

Question: 2 of 35

QID: 686

Marks : 1

What do these have in common?

- A. salty B. red
- C. sweet D. sour

Question: 3 of 35

QID: 186

Marks : 1

A silver bracelet has a mass of 22grams and a volume of 2 cubic centimetres What is its density?

- A. 11 B. 12
- C. 15 D. 16

Question: 4 of 35

QID: 188

Marks : 1

A clay pot has a mass of 50grams and a volume of 25 cubic centimetres What is its density?

- A. 4 B. 2
- C. 1 D. 3

Question: 5 of 35

QID: 409

Marks : 1

Is a yarn pom-pom a solid, a liquid, or a gas?

- A. solid B. liquid
- C. gas

Question: 6 of 35

QID: 411

Marks : 1

Is molten metal a solid, a liquid, or a gas?

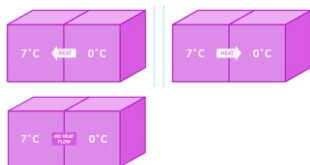
- A. solid B. liquid
- C. gas

Question: 7 of 35

QID: 695

Marks : 1

Two solid blocks are heated to the temperatures shown. The blocks are placed so they touch. Which diagram shows the direction heat will flow?



- A. 7 to 0 B. 7 to 0
- C. no flow

Question: 8 of 35

QID: 421

Marks : 1

What do these two changes have in common? Sauce burning on a stove, burning a candle

- A. both are physical change B. both are chemical change
- C. both are caused due to heating D. both are caused due to cooling

Question: 9 of 35

QID: 684

Marks : 1

Which property does these objects have in common



- A. stretchy B. yellow
- C. fuzzy

Question: 10 of 35

QID: 437

Marks : 1

boy and his younger brother play with their toy car in the snow. The older brother uses a force to push the car forward with his hands.

- A. away from his hand B. towards his hand

Question: 11 of 35

QID: 1294

Marks : 1

Two magnets are placed as shown. Will these magnets attract or repel each others?



- A. repel B. attract

Question: 12 of 35

QID: 1276

Marks : 1

Complete the sentence. Cymbals crashing is an example of _____ converting to sound energy.

- A. light energy B. energy of motion
- C. heat energy

Question: 13 of 35

QID: 1273

Marks : 1

Beep! Beep! Beep!" Dylan's alarm clock wakes him up. He turns on his lamp. Then he goes to the kitchen and makes some toast for breakfast. Dylan used several devices that require energy. Each of these devices converts electrical energy, or electricity, into one or more different forms. Which is the best example of converting electrical energy to light energy?

- A. an alarm beeping B. turning on a lamp
- C. toasting bread

Question: 14 of 35

QID: 966

Marks : 1

This species of trapdoor spider was named after president Barack Obama. The species was first discovered in Northern California in 2012.

- A. Aptostichus barackobamai B. aptostichus angelina jolie

Question: 15 of 35

QID: 1011

Marks : 1

Which jobs does the circulatory system do?

- A. digest food B. create enzymes
 C. bring oxygen to cells

Question: 16 of 35

QID: 979

Marks : 1

What is the name of the process plants use to make food?

- A. gemiation B. photosynthesis
 C. pollination

Question: 17 of 35

QID: 994

Marks : 1

Opalescent nudibranchs have stinging cells in their brightly colored skin. The bright colors serve as a warning sign that the animal is toxic and dangerous. The opalescent nudibranch's skin is adapted to ward off predators. Which animal's skin is better adapted as a warning sign to ward off predators?

- A. deers B. fire salamander

Question: 18 of 35

QID: 1629

Marks : 1

Is the following trait inherited or acquired? Hannah has naturally blond hair. Hint: Some people dye their hair. But this does not change their natural hair color.

- A. inherited B. acquired

Question: 19 of 35

QID: 448

Marks : 1

Select the part whole main job is to store and other nutrients in the cell.

- A. mitochondria B. vacuole
 C. chromosomes D. nucleus

Question: 20 of 35

QID: 449

Marks : 1

Select the part whole main job is to fill the space between the cell membrane and the nucleus.

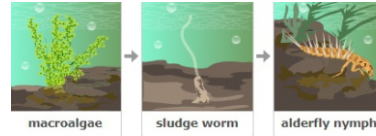
- A. cell wall B. chromosomes
 C. chloroplast D. cytoplasm

Question: 21 of 35

QID: 708

Marks : 1

Why is nymph called consumer?



- A. it eats other organisms B. it produce its own food
 C. it do nothing

Question: 22 of 35

QID: 709

Marks : 1

Why is bison a consumer?



- A. it eats oats B. it is eaten by wolf
 C. it produce its own food

Question: 23 of 35

QID: 1630

Marks : 1

Imagine you have a friend, Marsella, who lives near the coast. You read a social media post from Marsella. Her post includes an article about sea turtles. What is the main purpose of this article?

Marsella
May 27, 2016

I love sea turtles! My county is trying to protect them.

Lights out: sea turtle rule proposed
Jasper Gutierrez, Sun and Sand Local Times

Chelonia County officials have proposed a new law to protect baby loggerhead sea turtles. The law would limit artificial light visible from beaches after dark.

Artificial light, such as light from streetlights, house lights, or bonfires, can put sea turtles in danger. The artificial light can confuse baby sea turtles on the beach. Confused baby sea turtles may crawl into the road and be run over by cars. The turtles may also be eaten by crabs, birds, or raccoons.

The proposed law applies to all artificial light visible from county beaches. Lights would have to be turned off or covered from sunset to sunrise. Both indoor and outdoor lights would be affected. Bright flashlights and flash photography also would not be allowed.

The law was drafted by the state Department of Natural Resources' Sea Turtle Conservation Program.

Like Comment Share

- A. to describe predators that eat baby sea turtles B. to explain how laws are passed in chelonia county
 C. to persuade readers to protect wildlife D. to inform people about a law that may be passed

Question: 24 of 35

QID: 2124

Marks : 1

Imagine you have a friend, Marsella, who lives near the coast. You read a social media post from Marsella. Her post includes an article about sea turtles. What is the main purpose of this article?

Marsella
May 27, 2018

I love sea turtles! My county is trying to protect them.

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Like Comment Share

- A. to describe predators that eat baby sea turtles
- B. to persuade readers to protect wildlife
- C. to inform people about a law that may be passed
- D. to explain how laws are passed in chelonia county

Question: 25 of 35

QID: 1258

Marks : 1

Basalt is a type of rock. It is commonly found near volcanoes in Hawaii and Iceland. When melted rock cools at the earth's surface, it can form basalt. What type of rock is basalt?

- A. igneous
- B. sedimentary
- C. metamorphic

Question: 26 of 35

QID: 1260

Marks : 1

Quartzite is a type of rock. It forms when sandstone is changed by high temperature and pressure. Quartzite is used to make floors, roofs, and kitchen counters in some parts of the world. What type of rock is quartzite?

- A. metamorphic
- B. igneous
- C. sedimentary

Question: 27 of 35

QID: 1022

Marks : 1

Complete the sentence. Fossils are _____ of ancient organisms.

- A. the living tissues
- B. human-made models
- C. preserved remains of the body parts or activities.

Question: 28 of 35

QID: 1243

Marks : 1

Does this passage describe the weather or the climate? Greta noticed that the wind was blowing in from the ocean this afternoon. Hint: Weather is what the atmosphere is like at a certain place and time. Climate is the pattern of weather in a certain place.

- A. weather
- B. climate

Question: 29 of 35

QID: 1240

Marks : 1

Many different features cover Earth's surface. In some places, hills and mountains rise high above the surrounding land. In other places, valleys and canyons drop far below. Elevation is the height of a location compared to sea level. Elevation is usually measured in feet or meters. Use the image to complete the sentence. The tops of the mountains are at _____ the valley below.

- A. a higher elevation than
- B. the same elevation as
- C. a lower elevation than

Question: 30 of 35

QID: 1237

Marks : 1

Complete the paragraph. A volcano is a _____. Volcanoes can erupt. During a volcanic eruption, _____ melted rock the ground.

- A. hole in Earth's surface. . . comes out of
- B. fire below Earth's surface. . . turns solid below
- C. type of melted rock . . . flows into

Question: 31 of 35

QID: 1236

Marks : 1

The Sun is the center of our solar system. Earth and seven other planets orbit the Sun. The Sun is a ball of hot gas that gives off light energy. Without the Sun, there would be no life on Earth. When viewed from Earth, the Sun looks like a bright ball in the sky. But what exactly is the Sun? Use these definitions to help answer this question. star is an enormous ball of hot gas in space that gives off energy. planet is a large round object that orbits a star. moon is an object that orbits a planet. What type of object is the Sun?

- A. planet
- B. moon
- C. star

Question: 32 of 35

QID: 1632

Marks : 1

Imagine a school is facing a problem caused by flooding. The lunchroom at Sunset Elementary School floods each year. When there is more than one inch of water on the ground outside, water flows under the doors and into the building. Dr. Rogers, the principal, wants to find a way to protect the lunchroom from flooding. Select the three times the lunchroom is most likely to flood.

1. during a drought, when there is not much rain
2. when a large amount of snow melts quickly
3. when a river next to the school overflows
4. during a storm with lots of rain



- A. 1,2,&4 B. 2,3,&4
- C. 1,3&4

Question: 33 of 35

QID: 2062

Marks : 1

Dr. Rogers wants to protect the lunchroom because flooding can cause problem. Which two problems might Sunset School have because of flooding?

- A. Wind could blow the lunchroom roof off, & Water could ruin the lunchroom walls and flo
- B. Mud and sand could cover the lunchroom floor & Water could ruin the lunchroom walls and flo
- C. Wind could blow the lunchroom roof off.& Mud sand could cover the lunchroom floor

Question: 34 of 35

QID: 1226

Marks : 1

How long is the Mississippi River? Select the best estimate.

- A. 2,300 feet B. 2,300 yards
- C. 2,300 miles

Question: 35 of 35

QID: 1227

Marks : 1

How long is the Nile River? Select the best estimate.

- A. 4,250 feet B. 4,250 yards
- C. 4,250 miles

--- END OF QUESTION PAPER ---