



**INTERNATIONAL  
FSP CONTESTS**



**FSP  
SCIENCE  
CONTEST  
QUESTION  
BOOKLET**

**Volume-23**

**GRADE 3 & 4  
VIBRANT YOUNGSTERS**

**EXHIBIT YOUR SKILLS TO THE WORLD**



**Time Allowed 75 minutes  
Maximum Marks : 75**

## INSTRUCTIONS FOR THE EXAMINATION INVIGILATORS

- 1). Invigilation must be carried out promptly.
- 2). Don't start attempting the paper until instructed by the invigilator.
- 3). Carefully recheck your name, father name, school name, address etc. at the bubble sheet/answer sheet.
- 4). Record all answers on the bubble sheet only, select best answer from the four given options and mark only one option in each question.
- 5). Use blue/black ink to fill up the circles for your answers on the bubble sheet use of lead pencil is not allowed.
- 6). Use of any helping material including cell phones and electronic devices is strictly prohibited.
- 7). Every correct answer earns three points. there would be negative marking, one point would be deducted for every incorrect answer.
- 8). Candidates may not leave the examination room unescorted for any reason, and this includes using the washroom.
- 9). No materials or electronic devices shall be brought in to the room.
- 10). There are five categories of the contest as under:
  - A Vibrant youngsters Grade 1 & 2
  - B Vibrant youngsters Grade 3 & 4
  - C Vibrant youngsters Grade 5 & 6
  - D Vibrant youngsters Grade 7 & 8
  - E Vibrant youngsters Grade 9 & 10/0-levels
- 11). Only registered students can participate in the contest.
- 12). No candidate shall take out of the hall any answer book(s) or part of an answer book, whether used or unused, or other supplied material.
- 13). If a participant does not understand a word or phrase on the exam paper, neither examiner nor invigilator is permitted to answer.
- 14). For information about upcoming contests or providing valuable feedback, please visit [www.fspcompetitions.org](http://www.fspcompetitions.org)
- 15). Any academic misconduct or malpractice must be reported to FSP vibrant youngsters at [info@fspcompetitions.org](mailto:info@fspcompetitions.org)

**Q1: One morning, Sara picked a marigold flower from her garden. Inside her kitchen, she saw a mango and an orange on the table. She smiled and said, “They all look so bright and cheerful!”**

**What property do the marigold, mango, and orange have in common?**

- A. Same size
- B. Same shape
- C. Same colour
- D. Same weight



**Q2: The picture shows a fossil of an ancient sea animal.**

**Which trait can you observe from the fossil?**

- A. It had soft fur
- B. It had a hard outer covering
- C. It could fly
- D. It lived on land



**Q3: Penguins live in very cold places covered with ice and snow. Which picture shows where a penguin is most likely to live?**

A. Hot desert



B. Icy Antarctica



C. Rainforest



D. Grassland



**Q 4: Which of the following shows a lake?**

A. Flowing water between two banks

B. A small pond in a garden

C. A large body of still water surrounded by land

D. Water falling from a height



**Q 5: Which part of the potato plant do we usually eat?**

**A. Leaf**



**B. Flower**



**C. Root**



**D. Fruit**



**Q 6: Which of the following colour are commonly used in world map?**

**A. Blue for water**



**B. White for ice**



**C. Green and brown for land**



**D. All of above**

**Q 7: Two metal spoons are placed in hot soup. Aftersome time, both spoons become warm.**

**Why do the spoons become warm?**

- A. Because metal reflects heat
- B. Because heat travels through metal
- C. Because metal produces heat
- D. Because spoons absorb light



**Q 8: A teacher shines a torch on a globe to show day and night. If a country is directly facing the torch, what time is it there?**

A. Midnight



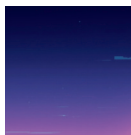
B. Early morning



C. Middy



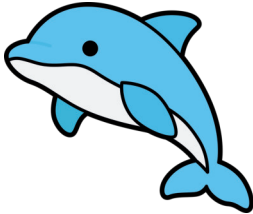
D. Evening



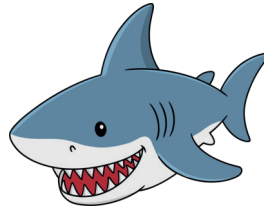
**Q 9 : A true fish lives in water all it's life , breathes with gills , has fins and is cold blooded.**

**Which animal is a true fish?**

**A. Dolphin**



**B. Shark**



**C. Whale**



**D. Turtle**



**Q10: A parachute is falling from the sky. Force A is air resistance pushing upward.**

**What effect does air resistance have?**

- A. Makes it fall faster**
- B. Makes it fall slower**
- C. Makes it heavier**
- D. Makes it lighter**

**Q11: Which source of energy does NOT cause air pollution?**

**A. Burning coal**



**B. Burning wood**



**C. Solar panels**



**D. Petrol engine**



**Q12: An animal skull has sharp, pointed teeth.**

**What does this animal mainly eat?**

**A. Plant**



**B. Meat**



**C. Leaves only**



**D. Fruits**



**Q13: Which mixture can be separated using a filter?**

- A. Sugar and water
- B. Oil and water
- C. Sand and water
- D. Salt and water

**Q14: Hassan is testing how different surfaces affect growth of a specific type of plant. One surface seems to be affecting the plants differently than others.**

**What could it be?**

- A. Surface made of concrete
- B. Surface coated with fertilizer
- C. Surface made with plastic
- D. Surface treated with herbicide

**Q15: A farmer sorted apples into red, green, and yellow groups.**

**Why was sorting useful?**

- A. To make them taste better
- B. To count them easily
- C. To change their colour
- D. To grow more apples



**Q16: Which is the most common height range of the sunflower plants?**

A. 0–10 cm



C. 21–30 cm



B. 11–20 cm



D. 31–40 cm



**Q17: Student places a bulb and light sensor inside a closed box.**

**Why?**

- A. To stop air entering
- B. To measure only the bulb's light
- C. To make bulb brighter
- D. To keep bulb cool



**Q18: Four boats are made from identical foil. Boat 4 carries the most coins before sinking. Why?**

- A. It is heavier
- B. It is stronger
- C. It has the largest base
- D. It is tallest

**Q 19: What is the main source of food for bees?**

- A. Pollen
- B. Nectar
- C. Honey
- D. Water



**Q20: The animal has fur and eats meat.  
What is the animal?**

A. Cow



B. Lion



C. Parrot



D. Snake



## **\*"The Three States of Matter: Sammy, Lila, and Gary's Adventure"\***

In the land of Scienceville, there lived three best friends - Sammy the solid, Lila the liquid, and Gary the gas. They were all made up of the same stuff, but they looked and acted differently.

Sammy the solid was a sturdy brick, strong and rigid. He liked to keep his shape and didn't like to change. "I'm a solid, I stay the same!" he'd say.

Lila the liquid was a bit more laid-back. She flowed like water and took the shape of whatever container she was in. "I'm free to flow and change!" she'd exclaim.

Gary the Gas was always bouncing around, floating high and low. He was invisible, but his presence was felt. "I'm everywhere, I'm a gas!" he'd shout.

One day, they decided to have a science experiment party. Sammy the solid turned into Lila the liquid when heated, and Lila the liquid turned into Gary the gas when heated some more! The friends realized they could change forms, but they were still the same matter

**Q21: What are the three forms of matter?**

- A) Solid, Liquid, Earth
- B) Solid, Liquid, Gas
- C) Solid, Wood, Gas
- D) Water, Liquid, Gas

**Q21: What happens to a solid when it's heated?**

- A) It stays solid
- B) It becomes a gas
- C) It becomes a liquid
- D) It disappears

**Q23: What is an example of a gas?**

- A) A brick
- B) Water
- C) Air
- D) A book

**Q24: What does a liquid take the shape of?**

- A) Its original shape
- B) A solid
- C) A container
- D) A gas

**Q25: What did Sammy, Lila, and Gary learn?**

- A) They were different matters
- B) They could change forms
- C) They were the same matter
- D) Both B and C




# ANSWER SHEET


## Grade 3 & 4

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| 8  | <input type="radio"/> A | <input type="radio"/> B          | <input checked="" type="radio"/> | <input type="radio"/> D          | 23 | <input type="radio"/> A          | <input type="radio"/> B          | <input checked="" type="radio"/> | <input type="radio"/> D          |
| 9  | <input type="radio"/> A | <input checked="" type="radio"/> | <input type="radio"/> C          | <input type="radio"/> D          | 24 | <input type="radio"/> A          | <input type="radio"/> B          | <input checked="" type="radio"/> | <input type="radio"/> D          |
| 10 | <input type="radio"/> A | <input checked="" type="radio"/> | <input type="radio"/> C          | <input type="radio"/> D          | 25 | <input checked="" type="radio"/> | <input type="radio"/> B          | <input type="radio"/> C          | <input type="radio"/> D          |
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