

FREE PRACTICE PACK · EDITION 1

Class 6 Science Olympiad practice

16 original questions + explained answers

For students preparing for SOF ISO.

Inside this pack

Eight topic-practice questions and an eight-question, 20-minute mini-mock.

Topics selected for practice

- Food, materials and separation
- Living diversity and health
- Motion, magnets and heat
- Earth and space

How to use it

Try the practice first. Complete the mini-mock in one sitting. Check the explanations, mark mistakes, and retry them the next day.

This pack covers selected topics. It is original BodhiScore material, independent of SOF, and is not an official paper or a full-length exam. Check the official syllabus for the complete scope.

Topic practice

Work through these eight questions without a timer. Explain your choice before checking the solutions.

1. Food, materials and separation

A mixture contains iron filings and sand. Which tool separates the iron?

- A.** Filter paper alone
 - B.** Warm water
 - C.** Magnet
 - D.** Sieve with huge holes
-

2. Living diversity and health

A fish has gills. What do gills help it do?

- A.** Walk on land
 - B.** Hear colours
 - C.** Take oxygen from water
 - D.** Make food from sunlight
-

3. Motion, magnets and heat

A metal spoon and wooden spoon sit in warm soup. Which handle usually warms faster?

- A.** Wooden handle
 - B.** Both remain exactly cold
 - C.** Neither can transfer heat
 - D.** Metal handle
-

Topic practice (continued)

4. Earth and space

Why do we see different phases of the Moon?

- A.** We see different portions of its sunlit half as it orbits Earth
 - B.** Earth's shadow covers it every night
 - C.** The Moon makes its own changing light
 - D.** Clouds change its shape
-

5. Food, materials and separation

A mixture of salt and water is heated until the water evaporates. What remains?

- | | |
|-------------------------|--------------------------|
| A. Salt crystals | B. Iron |
| C. Oil | D. Nothing at all |
-

6. Living diversity and health

Mushrooms grow on fallen logs and obtain nutrients from them. Which role do they play?

- | | |
|--------------------|----------------------|
| A. Mineral | B. Decomposer |
| C. Producer | D. Sunlight |
-

Topic practice (continued)

7. Motion, magnets and heat

A rolling ball slows on grass but rolls farther on smooth tile. Which force explains the difference?

- | | |
|--------------------|---------------------|
| A. Friction | B. Magnetism |
| C. Upthrust | D. Light |
-

8. Earth and space

What causes day and night on Earth?

- | | |
|-----------------------------------|--------------------------------------|
| A. Earth stopping in space | B. Earth rotating on its axis |
| C. The Moon orbiting Earth | D. Clouds moving |
-

Timed mini-mock

Set a 20-minute timer for these eight questions. Score 1 point per correct answer; there is no penalty for an incorrect answer. This is BodhiScore's practice scoring.

9. Food, materials and separation

Which method separates tea leaves from brewed tea?

- | | |
|--------------------------------------|-----------------------------------|
| A. Filtration with a strainer | B. Evaporating all the tea |
| C. Using a magnet | D. Freezing the leaves |
-

10. Living diversity and health

A person eats only one kind of food for many months. What is the main concern?

- | | |
|--|--|
| A. They will no longer need water | B. Their body makes unlimited vitamins |
| C. Food has no effect on health | D. They may miss nutrients found in other foods |
-

11. Motion, magnets and heat

Two like poles of magnets are brought close. What happens?

- | | |
|---------------------------------|-------------------------|
| A. They lose all mass | B. They repel |
| C. They attract strongly | D. They dissolve |
-

Timed mini-mock (continued)

12. Earth and space

A shadow is longest in the early morning and late afternoon. What does this tell you about the Sun's apparent position?

- | | |
|-----------------------------------|----------------------------------|
| A. It is directly overhead | B. It has disappeared |
| C. It is behind Earth | D. It is lower in the sky |
-

13. Food, materials and separation

A student needs to separate stones from rice without tools. Which property is most useful?

- | | |
|------------------------------------|--|
| A. They have the same shape | B. Visible differences in size and appearance |
| C. Both dissolve in water | D. Both are magnetic |
-

14. Living diversity and health

Why are green plants called producers in a food chain?

- | | |
|---|------------------------------------|
| A. They break rocks into metal | B. They depend on predators |
| C. They make food using sunlight | D. They eat every animal |
-

Timed mini-mock (continued)

15. Motion, magnets and heat

A metal pan feels cooler than a wooden handle at the same room temperature. Why can this happen?

- | | |
|--|---|
| A. Wood creates cold | B. Your hand has no heat |
| C. Metal transfers heat from your hand faster | D. Metal is always at a higher temperature |
-

16. Earth and space

A student observes that the Sun appears to move across the sky each day. What causes this apparent motion?

- | | |
|--|-----------------------------|
| A. The Sun orbiting Earth daily | B. The Moon's phases |
| C. The stars pushing the Sun | D. Earth's rotation |
-

Answers and explanations

Check why the answer works, then retry any question you missed.

1. C - Magnet

Iron is attracted by a magnet while sand is not.

2. C - Take oxygen from water

Gills extract dissolved oxygen from water for respiration.

3. D - Metal handle

Metal conducts heat more readily than wood.

4. A - We see different portions of its sunlit half as it orbits Earth

The Moon's orbit changes how much of its illuminated half is visible from Earth.

5. A - Salt crystals

Water evaporates while dissolved salt remains behind.

6. B - Decomposer

Fungi decompose dead material and return nutrients to the environment.

7. A - Friction

Greater friction on grass opposes motion more strongly.

8. B - Earth rotating on its axis

Earth's rotation turns different places toward and away from the Sun.

9. A - Filtration with a strainer

A strainer holds back leaves while the liquid passes through.

Answers and explanations (continued)

10. D - They may miss nutrients found in other foods

Different foods provide different nutrients, so variety supports health.

11. B - They repel

Like magnetic poles repel each other.

12. D - It is lower in the sky

A lower Sun makes light strike objects at a shallow angle and creates long shadows.

13. B - Visible differences in size and appearance

Hand sorting works when components can be distinguished and picked out.

14. C - They make food using sunlight

Plants use photosynthesis to produce food from simple materials.

15. C - Metal transfers heat from your hand faster

Metal's higher thermal conductivity makes it draw heat from skin faster.

16. D - Earth's rotation

Earth rotates, making the Sun appear to move from east to west.

Topic scope checked against SOF syllabus: [SOF ISO Class 6 syllabus](#)