# Year 3 Science

Observation • living things • materials • forces • fair testing

Name: _____ Date: _____

Instructions: Work independently where possible. Explain your thinking. You may ask an adult to read instructions aloud.

## 1. Living things

A seed is placed on a wet paper towel. What changes might you observe over a week? Name two things the seed needs to germinate.

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## 2. Food chains

Create a food chain using grass, rabbit and fox. Explain where the energy begins.

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## 3. Habitats

Why might a polar bear struggle to live in a hot desert? Give two reasons.

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## 4. Materials

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Choose the best material for a raincoat: paper, cotton, plastic-coated fabric. Explain using properties.

## 5. Forces

A toy car rolls down a ramp. What happens if the ramp becomes steeper? Make a prediction and explain.

## 6. Fair test

You want to test whether plants grow better with more sunlight. What will you change, measure and keep the same?

## 7. States of matter

Describe what happens to ice left in a warm room. Is it a reversible change?

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## 8. Electric circuits

A torch does not light up. Suggest two things you could check safely without opening a mains-powered device.

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## 9. Data interpretation

Plant A grows 2 cm, 4 cm, 6 cm over three weeks. Plant B grows 1 cm, 2 cm, 3 cm. Which grows faster? Use numbers.

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## 10. Scientific curiosity

Write your own testable question about shadows. Predict an answer and say what you would measure.

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# Parent Guide | Science

Purpose: This is a low-pressure snapshot of current skills, not a fixed ability label. Allow approximately 25–40 minutes, or split into shorter sessions.

## How to support without giving answers

Read directions aloud if needed. Let your child think, draw or use counters. Record whether an answer was independent, prompted, or supported. Avoid correcting answers until the child has finished.

## Suggested answers and observations

1. Suggested answer: Root and shoot may emerge; water and suitable warmth/oxygen

Look for: Separate observations from explanations.

2. Suggested answer: Grass → rabbit → fox; energy originally from sunlight

Look for: Understand producers and energy flow.

3. Suggested answer: Too hot; limited suitable food/water; adaptations unsuitable

Look for: Connect habitat to survival needs.

4. Suggested answer: Plastic-coated fabric

Look for: Water resistance, flexibility and suitability.

5. Suggested answer: Often rolls faster

Look for: Predict and justify; control release position and car.

6. Suggested answer: Change light; measure growth; keep plant type, water, soil, time similar

Look for: Independent/dependent/control variables.

7. Suggested answer: Melts into liquid water; reversible by freezing

Look for: Recognise physical change.

8. Suggested answer: Check batteries, switch, or loose connection in a safe low-voltage torch

Look for: Basic circuit understanding; adult supervision for battery handling.

9. Suggested answer: A grows faster: +2 cm per week vs B +1 cm per week

Look for: Use numerical evidence rather than just final height.

10. Suggested answer: e.g., How does distance from a lamp change shadow size?

Look for: Specific variable, measurable outcome, safe method.

## After the assessment

Discuss one strength, one skill to practise, and one next step. Ask: “How did you decide?” and “Can you show another way?” Encourage effort, explanations and

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curiosity.

## Parent notes

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