

YEAR 7 SCIENCE

Assessment Booklet

Autumn Term



Name: _____

Teacher: _____

Classroom: _____

Expectations

Practical Reports

- Completed in blue or black ink
- All margins, tables & label lines are ruled
- All headings and subheadings are underlined
- Diagrams are scientifically drawn in pencil
- All components of the report are present: title, date, aim, hypothesis, materials, diagram, method, results, questions, conclusion
- All graphs drawn on graph paper in pencil and with a ruler
- Writing is legible
- Checked by a peer

Workbook

- Have feedback booklets inside cover
- All work to have a clear title & date (both underlined with a ruler)
- The margin will be used for question numbers/letters
- All writing will start next to the margin with correct use of capital letter and punctuation
- All writing in blue or black ink
- All writing will be legible and of an appropriate size
- All diagrams, tables and drawings to be completed with a pencil and a ruler
- All errors to be crossed out with a single line, no correction fluid to be used
- Do not tear pages from your book
- Each piece of work to be ruled off before starting next piece of work
- All feed forward to be completed in purple and self-correction in red
- Word processed work should be named and typed in Ariel size 12 font, size 14 for headings

Equipment

- Blue or black pen
- Red Pen
- Pencil
- Ruler
- Rubber
- Calculator
- Glue
- Scissors

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7A – CELLS, TISSUES, ORGANS & SYSTEMS

Revision Checklist

7Aa Life Processes

1. Identify things as being alive or not.
 2. Describe the life processes.
 3. Use life processes to justify whether something is an organism or not.
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7Ab Organs

4. Recall that the heart is an example of an organ.
 5. Identify and locate the major organs in humans and plants.
 6. Describe the functions of the major human and plant organs.
 7. Describe what happens in photosynthesis.
-

7Ac Tissues

8. Recall some tissues found in the heart and plant roots.
 9. Describe how organs and tissues are linked.
 10. Describe the functions of different tissues in some animal and plant organs.
-

7Ac Working Scientifically - Microscopes

11. Identify and name some parts of a microscope.
 12. Describe how to make a slide and explain what the coverslip is for.
 13. Explain how the parts of a microscope work.
 14. Describe how to use a microscope to look at a specimen on a slide.
 15. Work out microscope magnifications.
 16. Estimate the sizes of specimens seen under a microscope.
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7Ad Cells

17. Identify a cell as an animal cell or a plant cell.
 18. Name some of the parts of cells.
 19. Name the parts of animal and plant cells and describe their functions.
 20. Identify and name some specialised cells and describe what they do.
 21. Explain how and why certain cells are specialised.
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7Ae Organ Systems

22. Describe how cells, tissues, organs and organ systems are linked.
 23. Recall some of the organ systems in plants and animals and what they do.
 24. Recall the organs in some plant and animal organ systems.
-

7A – CELLS, TISSUES, ORGANS & SYSTEMS

Feedback

Mark

Pearson Step

Below Expected Progress / Making Expected Progress / Above Expected Progress

Teacher Feedback

Student Feedback

WWW:

EBI/
Target:

7E – MIXTURES & SEPARATION

Revision Checklist

7Ea Mixtures

1. State what is meant by the scientific method.
 2. Identify steps often used in the scientific method.
 3. Explain why we use the scientific method.
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7Eb Solutions

4. Describe how some animals care for their offspring.
 5. State what sexual reproduction is.
 6. Recall what gametes (sex cells) are.
 7. Describe what happens in fertilisation.
 8. Describe some differences in how animals reproduce.
-

7Ec Working Scientifically – Safety When Heating

9. Identify hazards and risks.
 10. Justify methods of risk reduction.
 11. Plan appropriate safety precautions in experiments
-

7Ec Evaporation

12. Describe how soluble solids can be separated from a solution.
 13. Describe the difference between evaporation and boiling.
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7Ed Chromatography

14. Describe how chromatography can be used to separate mixtures.
 15. Explain how chromatography works.
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7Ee Distillation

16. Describe how distillation can be used to separate mixtures.
 17. State examples of where distillation is used.
 18. Explain how distillation works.
 19. Use knowledge of separation techniques to decide how a mixture should be separated.
 20. Justify a decision to separate a mixture in a certain way.
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7E – MIXTURES & SEPARATION

Feedback

Mark

Pearson Step

Below Expected Progress / Making Expected Progress / Above Expected Progress

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EBI/
Target:

7F – ACIDS & ALKALIS

Revision Checklist

7Fa Hazards

1. Name something that is an acid.
2. Name something that is an alkali.
3. Recall why some chemicals have hazard symbols.
4. Recognise the common hazards and hazard symbols.
5. Explain why hazard symbols are necessary.

7Fa Working Scientifically – Controlling Risk

6. Recall the names of at least two everyday acids and alkalis.
7. Describe how risks from some hazards can be reduced.
8. Plan a safe investigation.
9. Explain the safety precautions that need to be taken when carrying out an investigation.

7Fb Indicators

10. Describe how indicators can be used to identify acids and alkalis.
11. Identify acids, alkalis and neutral solutions using litmus.
12. Explain why litmus is purple in neutral solutions.

7Fc Acidity & Alkalinity

13. Identify acids, alkalis and neutral solutions using universal indicator.
14. Describe the pH scale.
15. Describe how to measure the pH of a solution.

7Fd Neutralisation

16. Recall the name of the reaction that occurs between acids and alkalis.
17. Explain the difference between a physical and a chemical change.
18. Identify the reactants and products in a word equation.
19. Write a word equation for a reaction.
20. Recall the names of the salts produced by hydrochloric, sulfuric and nitric acids.
21. Describe how to produce a pure solution of a salt from an acid and a base or an alkali.

7Fe Neutralisation in Daily Life

22. Recall some uses of neutralisation.
 23. Recall the meaning of the term base.
 24. Explain some uses of neutralisation.
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7F – ACIDS & ALKALIS

Feedback

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Student Feedback

WWW:

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7I – ENERGY

Revision Checklist

7Ia Energy From Food

1. Explain why different people need different amounts of food.
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7Ia Working Scientifically – Fair Comparisons & Ratios

2. Use ratios to compare the energy released by different foods or fuels.
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7Ib Energy Transfers & Stores

3. Name some ways in which energy is stored.
 4. Name some ways in which energy is transferred.
 5. Identify energy stores and transfers in real-life situations.
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7Ic Fuels

6. Recall some examples of non-renewable fuels.
 7. Name some fuels used in transport or in the home.
 8. Describe how fossil fuels were formed.
 9. Recall some examples of renewable energy resources.
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7Id Other Energy Resources

10. Explain how the Sun is the original source of energy for fossil fuels, biofuels and food.
 11. Explain how the Sun is the original source of energy for wind, waves and hydroelectric resources.
 12. Suggest and explain suitable renewable energy resources to use in different situations.
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7Ie Using Resources

13. Describe some advantages and disadvantages of renewable energy resources.
 14. Suggest some ways in which we can reduce our use of fossil fuels.
 15. Describe what is meant by 'efficiency'.
 16. Explain how certain gases cause the greenhouse effect.
 17. Identify useful and wasted energies.
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71 – ENERGY

Feedback

Mark

Pearson Step

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Teacher Feedback

Student Feedback

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EBI/
Target:

Progress Flight Path

