



Topic 9: "Pure Substances, Mixtures, Solutions": One of the Chemical Science Topics (The "Teaching Buddy" Self Learning Series)

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Topic 9 "Pure Substances, Mixtures, Solutions" is one of the 39 topics in the Teaching Buddy Self Learning Series from the authors of Academic Excellence Group Resources.

These topics use a unique diagnostic learning and assessment style that allows you to gradually develop your understanding through increasing steps of difficulty. This is described in more detail below.

In Topic 9 "Pure Substances, Mixtures and Solutions" you will be taken through an understanding of the properties of the different types of substances around us including:

- Metals, non-metals and metalloids (semimetals) plus
- Pure substances formed from elements or chemicals with only one type of compound
- Mixtures that make up the majority of materials around us here on Earth
- Solutions: what they are, what is in them and how to recognise them
- How to combine or separate these types of substances into useful materials from food products to treating oil spills on the ocean.

All of this is built up gradually in your learning curve so that you don't feel swamped with information overload.

Each Topic in The "Teaching Buddy" Self Learning Series contains three Learning Packs:

- Pack A is an easy introduction into the main concepts to be learnt.
- Pack B steps up the learning and is more detailed than Pack A.
- Pack C is more challenging than Pack A or Pack B.

Each Learning Pack has the following main parts:

- Lesson Notes (full, comprehensive and easy to follow),
- Think Tasks (to reinforce the learning of each concept),
- Skills Projects (to get you examining, doing, experimenting),
- Diagnostic Tests (that get harder with each question, to help you find your level of understanding).

So, what is The "Teaching Buddy" Self Learning Series?

The Series is divided into the four main science areas with a total of 39 Self Learning Topics that are completely self contained but designed to gradually increase your awareness of the knowledge and skills needed to enter secondary and further education. Try to start at the beginning of each set and work through the topics in order:

- Physical Sciences

1. Motion and Unbalanced Forces
2. Gravity, Earth, Planets and the Sun
3. Energy and Change
4. Sound and Light: Similar Yet Different
5. Electrical Energy
6. Electromagnetic Radiation: Full Spectrum
7. The Law of Conservation of Energy
8. Laws of Motion

- Chemical Sciences

9. Pure Substances, Mixtures, Solutions
10. The Properties of Substances
11. States and Arrangements of Matter
12. Elements, Compounds and Mixtures
13. Chemical Change, Reactions, New Substances
14. Compounds and Society
15. Atomic Theory I: Introducing the Atom
16. Atomic Theory II: How Matter Interacts
17. Atomic Theory III: Structure and Elements
18. Atomic Theory IV: The Amazing Periodic Table of the Elements
19. Chemical Reactions I: An Introduction
20. Chemical Reactions II: Combustion and Acids
21. Chemical Reactions III: Useful Substances

- Biological Sciences

22. Diversity and Classification
23. Food Chains and Food Webs
24. Cells: Structures and Functions
25. Multicellular Organisms: Functions
26. Multicellular Organisms and Body Systems
27. Diseases: An immune System Response
28. Ecosystems and Organisms
29. Genetics: Why You Look Like Your Parents
30. The Theory of Evolution

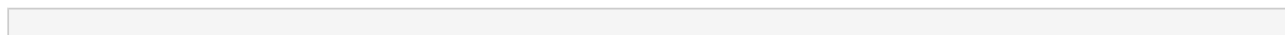
- Earth Sciences

31. The Effects of Earth's Movements
32. Renewable and Non-renewable Resources
33. Water and the Environment
34. Rocks and Minerals
35. Geological Resources
36. The Theory of Plate Tectonics
37. The Big Bang Theory and the Universe
38. The Long Arm of Gravity
39. Earth Systems


So there you have it: a solid foundation for entering the secondary sciences (Physics, Chemistry, Biology and Earth Sciences) and higher studies?

They are ideal for:

- a complete course in schools,
- selected topics to “fill in gaps” and give students a variation of learning styles,
- home schooling,
- distance education,
- isolated le



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Patricia Smith:

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