

7. GROUPS 1 & 2

SECTION B

Answer ALL the questions. Write your answers in the spaces provided.

- 1 Magnesium oxide, known as magnesia, can be produced by the thermal decomposition of magnesium carbonate.

The equation for the reaction is



- *(a) Other Group 2 carbonates also undergo thermal decomposition.

State and explain the trend in thermal stability of carbonates down Group 2.

(4)

Thermal stability increases down the group

Because ionic radius increases as you go down the group

This results in less polarisation (distortion) of the carbonate ion

And less weakening of the covalent bonds (C-O) within the carbonate ion

- *(c) State why carrying out a flame test is not an appropriate way to confirm the presence of magnesium ions in the sample of magnesia.

(1)

Magnesium ions give no flame colour

OR

Energy is emitted with Mg ions is outside of the visible region

(Total for Question 1 = 15 marks)

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Y Pai



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Religious Education in the Secondary School James D. Holt, 2014-12-08 Religious Education in the Secondary School is a comprehensive straightforward introduction to the effective teaching of Religious Education in the secondary classroom Acknowledging the highly valuable yet often misunderstood contribution of RE this text shows how the subject can be taught in a way that explores the impact of religion on the lives of people and society engaging pupils and preparing them to become individuals who celebrate and respect diversity It is illustrated throughout with ideas for teaching at different key stages and offers expert chapters introducing you to both the World Religions and the core aspects of effective teaching and learning With an emphasis on developing an understanding of the importance and different ways of meeting the learning needs of all pupils key chapters cover Understanding different pedagogies of RE Spirituality and RE Tips on effective planning and assessment An approach to teaching across the Key Stages Core subject knowledge in Buddhism Christianity Hinduism Islam Judaism and Sikhism Written by an experienced teacher teacher educator and examiner Religious Education in the Secondary School is a succinct compendium and has a real classroom applicability offering all trainee RE teachers as well as those teaching Religious Education as specialists or non specialists a wealth of support and inspiration **The Art of Uncertainty** David Spiegelhalter, 2025-03-04 Named a Best Book of the Year by Forbes and The Economist From our greatest living statistical communicator Tim Harford comes an invaluable data driven guide for understanding and learning to embrace risk and uncertainty in our daily lives How dangerous is our diet How much of sports falls into the realm of luck When authorities categorize a given event as highly likely how likely is that really Whether we're trying to decide if the benefits of a new medication are worth the chance of side effects or if artificial intelligence truly threatens humanity our lives are riddled with uncertainties both everyday and existential yet it can be difficult to know how to properly weigh all those unknowns Luckily for us renowned statistician David Spiegelhalter has spent his career dissecting data to resolve the apparently random and decode the many decisions we face with imperfect information In The Art of Uncertainty he shows how we can become better at dealing with what we don't know to make smarter choices in a world so full of puzzling variables In lucid lively prose Spiegelhalter guides us through the principles of probability illustrating how they can help us think more analytically about everything from medical advice to sports to climate change forecasts He demonstrates how taking a mathematical approach to phenomena we might otherwise attribute to fate or luck can help us sort hidden patterns from mere coincidences better evaluate cause and effect and predict what's likely to happen in the future Along the way we learn how a misinterpretation of a probability contributed to the infamous Bay of Pigs fiasco why a ship twice the size of the Titanic sank without a trace and why we can be so confident that no two properly shuffled decks of cards have ever been in the same order Sparkling with wit and fascinating real world examples this is an essential guide to navigating uncertainty while also retaining the humility to admit what we don't or simply cannot know **What is a Mathematical Concept?**

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