

Give the following definitions:

Atom

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Element
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What are the 3 particles in an atom and what are each of the charges?

In a periodic table what is the trend across the row?

In a periodic table what is indicated by the columns?

Can you draw below the particle formation of a solid, liquid and gas?

What is the difference between a chemical and physical change? Giving an example of each

Describe the properties of a solid, liquid and gas in terms of the particle theory

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Give the name of each of the processes below

Solid to liquid \_\_\_\_\_

Liquid to gas \_\_\_\_\_

Gas to liquid \_\_\_\_\_

Liquid to solid \_\_\_\_\_

Gas to solid \_\_\_\_\_

Describe the difference between an element, mixture and compound

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Can you draw an element, mixture and compound?

Draw the structure of an atom, include the charges of the subatomic particles

What can we tell from the atomic number?

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State the properties of metals and contrast them with the properties of non-metals

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Where in a chemical equation are the reactants and the products?

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State the different types of chemical reactions

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What conditions increase the rates of chemical reactions?

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What does reactivity mean?

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Order the following metals from fastest reactivity to slowest reactivity:

Zinc, Magnesium, Copper, Lead, Iron, Silver and Gold

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Why do we use Copper for gas pipes in homes and offices?

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Write the word equations for the following reactions

Hydrochloric acid and Zinc

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Hydrochloric acid and Magnesium

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What are the recycling steps of plastic and glass?

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What is an alloy?

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Why are alloys usually stronger than elemental metals?

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Name 3 alloys and their benefits

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Why do we use gold and silver in jewellery (hint: what properties make them suitable for wearing as ornaments?), and why do we have to add other elements to them (hint: why do we make them into alloys?)

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