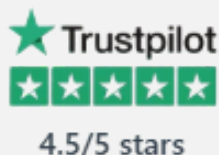
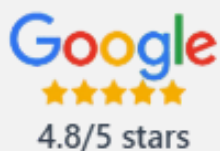




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CHEMISTRY JOURNEY JUMPERS

MODULE -1 HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

ATOMIC STRUCTURE AND THE PERIODIC TABLE

- Atomic structure (very small electron mass)
- Developing a model for atoms
- Atoms, elements and compounds
- Modern periodic table and electron configuration
- Atomic number and mass number
- Isotopes and relative atomic mass
- Relative formula mass
- Development of the periodic table



CHEMISTRY

JOURNEY JUMPERS

MODULE -1 HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

STRUCTURE AND BONDING

- Why chemical reactions happen
- Metallic structure and properties
- Metal alloys
- Alloys and their properties
- Forming ions for ionic bonding
- Giant ionic structures
- Determining ionic formulae
- Ionic diagrams for binary ionic substances
- Properties of giant ionic structures
- Forming covalent bonds
- Properties of covalent substances
- Bonding models



CHEMISTRY

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STATES OF MATTER

- The particle model
- State changes: fundamentals
- State changes: evaporation and sublimation
- Predicting states of matter and limitations of the particle model
- Pure substance
- Heating and cooling curves
- Heating curves: practical



SEPARATING SUBSTANCES

- Solutions
- Filtration
- Crystallisation
- Interpreting chromatograms
- Potable water
- Wastewater treatment



CHEMISTRY JOURNEY JUMPERS

CHEMISTRY OF CARBON

- Bonding to carbon atoms
- Diamond and graphite
- Using models to explain state changes
- Graphene and fullerenes
- Discovery and uses of carbon nanostructures
- Hydrocarbons
- Bonding, structure and properties
- Nanoparticles



ENERGY CHANGES IN REACTIONS

- Energy changes in reactions
- Reaction profiles
- Breaking and making bonds



CHEMISTRY JOURNEY JUMPERS

RATE OF REACTION

- The rate of a chemical reaction: including graphs
- Appropriate equipment for measuring the rate of a reaction
- Collision theory
- Temperature and rate: practical
- Evaluating methods for measuring the rate of reaction
- Catalysts and rate



CHEMISTRY

JOURNEY JUMPERS

MODULE -2 WHAT ARE THINGS MADE OF?

MAKING SALTS

- Describing salts
- Hazard symbols and equipment
- Chemical reactions of acids with metals and metal carbonates
- Concentration of solutions
- Making a pure dry sample of a soluble salt
- Solubility rules
- Ionic equations: salt formation
- Adapting a multistep chemical procedure for making a pure dry salt
- Comparing concentration with strength



CHEMISTRY

JOURNEY JUMPERS

MODULE -3 HOW CAN SUBSTANCES BE MADE AND CHANGED?

CALCULATIONS INVOLVING MASSES

- Conservation of mass
- Balancing equations
- The mole
- Moles and masses
- Limiting reactants
- Determining an equation experimentally: sodium hydrogencarbonate
- Gas volumes
- Converting between mass and volume using moles



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syed mir aijaz Ali
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★★★★★

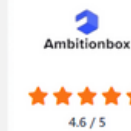
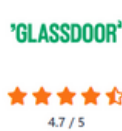
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Shalom SharonLily.
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We had great experience with connect2learn. My child's Maths teacher Shambhavi was very friendly and supportive for my child's progress.



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