

Topic Name – Potions Disposition Developing Contemplation: Being Curious and Valuing Knowledge. 	Year Group - Year 4 Autumn 1 – Chemistry. Topic Purpose Question: How are solids, liquids and gases important in our everyday lives?	Curriculum Coverage: Science Topic Purpose – To develop scientific knowledge and conceptual understanding through exploring a variety of everyday materials and develop simple descriptions of the states of matter by grouping and classifying the different materials. To observe changes when heated and cooled by researching temperature to change state of matter.	Class Novel: Alice in Wonderland Purpose- Reading a novel by a classic author which will extend and broaden vocabulary.
Links to previous topics. Year 2 – Handsworth Now and Then Year 2 – Explorers Links to future topics. Year 4 – Mountains and Rivers	Science States of matter Compare and group materials together, according to whether they are solids, liquids or gases. Activity: Sort empty packaging for a range of household products, such as cleaning liquids, detergents, soap, washing tablets, medicines, bubble bath, shaving foam, aerosols, eye drops, bottled water, juice and mouthwash, into groups of solids, liquids and gases. Use straightforward scientific evidence to answer questions or to support their findings. Activity: Use scientific books, websites and models to research how particles are typically arranged and move in solids, liquids and gases. Set up simple practical enquiries, comparative and fair tests. Activity: Test the rates at which liquids flow (viscosity) down a ramp or sloping piece of guttering. Time how long it takes for five different fluids to reach the bottom. Your selection might include lemonade, oil, double cream, washing up liquid, treacle and ketchup. Decide what to measure and identify the factors that would make it a fair test. Record results using diagrams, tables and charts. Purpose Question: Does a fluid that does not follow Newton's law of viscosity still flow? Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C). Activity: Use a kettle to investigate what happens when water is boiled. With an adult, pour cold water into a cup, cover with cling film or paper and heat in a microwave. Describe what happens in the heating and cooling water investigation, recording observations in a scientific report with diagrams or photographs. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Activity: Observe the chemical reaction when a heart shaped or red balloon is inflated using vinegar and bicarbonate of soda. Purpose Question: How can you affect the size or inflation speed by changing variables? Key Vocabulary: solid, liquid, gas, evaporation, condensation, particles, temperature, freezing, heating, volume.		
Engage Stage/Memorable Experience Trip to Think Tank – one workshops – Cauldron Chemistry.			
Art Drawing Teach about a range of great designers in history. Activity: Perfume bottles – who designed them, how – take inspiration from. Look at the work of Pierre Dinand – ‘The most celebrated bottle designer in the perfume world’. Explore website: https://www.pierre-dinand.com/ Look into his life – focus on how he became a perfume bottle designer Investigate some of his perfume bottles - shape, design, materials used, colour To improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials (for example, pencil, charcoal, paint, clay). Activity: Draw - Observe range of perfume bottles – shape, function, form. Design own taking from inspiration of others. Key Vocabulary: Focal point, refine, alter, foreground, middle ground, background, hatching, composition, scale, proportion, grades of pencil.		PE Dance (Bhangra) - PPA To perform using 5 hand gestures and use these to tell a story. To perform a dance with the correct movements. Swimming and Water Safety. Swim competently, confidently and proficiently over a distance of at least 25 metres. Use a range of strokes effectively. Perform safe self-rescue in different water based situations. MFL – Spanish Units: Phonetics 1 and 2 Fruits.	Music PPA – See separate planning.
Computing Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. Activities: See computing planning. Key Vocabulary: organise, file, folder, close, exit, search, print, password, screenshot, snipping tool, shift, undo, redo, menu, dictionary, highlight, cursor, toolbar, spellcheck, Google Docs, insert, table.	PSHE Being me in my world Becoming a Class Team Rights, Responsibilities and Democracy Rewards and Consequences School council elections Building the school vision statement Black History Month	RE Theme: Buddha’s teachings Key Question: Is it possible for everyone to be happy? Religion: Buddhism Disposition: Being Courageous and Confident	Writing focus connected to topic See Year 23-24 writing map. Extended/linked reading

