The King's CHURCH OF ENGLAND SCHOOL KIDSGROVE

Mini-Assessment Overview: Science

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Half term points

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
7	**Cells – the building blocks of life**	**Mixing, dissolving, and separating**	**Cells – the building blocks of life**	**Eating, drinking, and breathing**	**Elements, compounds, and their reactions**	**Eating, drinking, and breathing**
	Mini assessment: How do substances move through different cells?	**Mini assessment:** How might we separate mixtures?	**Mini assessment:** How are seeds dispersed?	**Mini assessment:** How might we find out what's in our food?	**Mini assessment:** How might we identify chemical changes?	**Mini assessment:** What factors effect diffusion?
	Key skills and knowledge assessed: • Cells are the building blocks of life. They contain structures called organelles which have specific jobs • Many cells are specialised for a specific task • Explain how different factors affect the rate of exchange of substances	**Key skills and knowledge assessed:** • Recognise the differences between substances and use these to separate them • Explain solubility • Obtain pure salt from a mixture	**Key skills and knowledge assessed:** • Recognise the variety of different structures shown by different seeds • Describe the need for plants to disperse tehir seeds • Plan, execute and analyse an investigation into seed dispersal	**Key skills and knowledge assessed:** • Describe how to test foods for starch, sugars, protein, and fat. • Predict the results of food tests for a range of foods. • Evaluate the risks involved in carrying our food tests	**Key skills and knowledge assessed:** • Describe the composition and uses of carbonate compounds. • Recognise and explain thermal decomposition reaction. • Observe and explain mass changes. • Use scientific terms and simple models to explain chemical processes.	**Key skills and knowledge assessed:** • Explain how diffusion makes breathing possible. • Observe the effects of diffusion. • Apply diffusion to our breathing system and ask questions to develop understanding.
	Forces and their effects	**Exploring the basics of electricity**	**Elements, compounds, and their reactionS**	**Mixing, dissolving, and separating**	**Energy transfers and sound**	**Energy transfers and sound**
	Mini assessment: How might we use friction?	**Mini assessment:** TBC	**Mini assessment:** How was the periodic table built?	**Mini assessment:** How might we use chromatography?	**Mini assessment:** How do get energy from fuels?	**Mini assessment:** How do soundwaves transfer energy?
	Key skills and knowledge assessed: • Describe the effects of friction • Understand that friction acts in the opposite direction to the direction of movement • Design procedures for investigating the force of friction	• TBC	**Key skills and knowledge assessed:** • Identify where and how different elements were found. • Recognise differences between elements. • Recognise that the periodic table has changed over time.	**Key skills and knowledge assessed:** • Use chromatography to identify unknown substances • Draw conclusions from evidence • Use chromatography to separate dyes	**Key skills and knowledge assessed:** • Describe the composition of fuels and recognise that different fuels transfer different amounts of energy. • Describe the advantages and disadvantages of using different fuels. • Present data using appropriate graphs and evaluate the quality of evidence collected.	**Key skills and knowledge assessed:** • Identify how sounds are made. • Describe how sound waves transfer energy. • Explain how loud and quiet sounds are made.

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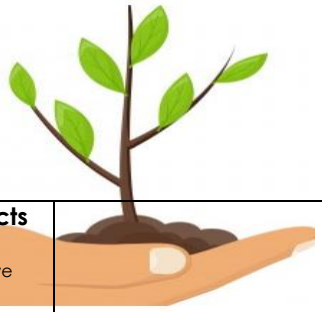

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			Forces and their effects **Mini assessment:** How might we use moments? **Key skills and knowledge assessed:** • Describe the effects of forces about a pivot point • Understand how distance and force effects moments Calculate moments			