Wellsprings Science Action Plan 2022/23

Strengths from 2021/2022	Areas that need development/priorities for 2022/23
-Successful implementation of floor books across the whole school which has enthused children and increased participation due to the value given to verbal responses as opposed to always written ideas. -The new data loggers have been introduced effectively in UKS2 and all teaching staff shown how to use them and the benefits of using this technology. -We made the use of the environment the school is in – Science in nature.	-Maintaining the profile of science across the school to keep enthusiasm and positive attitude to science. -Teacher questioning that will encourage all learners to use metacognitive skills. - Use of a range of formative assessment such as short end of unit assessments or ongoing through use of assessment bookmarks / whole class record and floor book so that it directly informs teaching. -Monitor science twice next year so that any support or school development points can be addressed earlier on in the year then reviewed later. -Continued Professional Development to further develop staff confidence, subject knowledge, and pedagogy.

Objective	Actions	Owner/ leader Who will undertake the actions?	When/ How Time / costs	Success Criteria	Impact and reflections
To raise the profile of science throughout the school	Build role of STEM ambassadors – have trial group of Year 6 ambassadors. Build link with Year 3/4 class initially where ch plan and carry out investigations with groups or set challenge for whole class. Take leadership role during whole-school events (STEM week)	*SW* *SS – link class*	T1 – T3	Excited and engaged children enjoying science Year 6 ambassadors showing improved working scientifically skills.	
	Continue to embed the use of the floor books so that lessons are based around conversations and hands-on activities (class investigations/activities) that will instil a love of science and build confidence. Science sharing assembly – floor books?		T1 – T3	Excited and engaged children enjoying science	
	STEM week – whole school week	SW SS / AB / LJ / PW (Leaders of Maths, computing and DT)	T3 Visitors? Prizes for whole-school competition? £100	Excited and engaged children enjoying science	

Provide all staff with CPD opportunities to support use of questioning and effective use of floor book	-Inset day/staff meetings to support staff in using a range of starters to stimulate scientific discussion and use of reasoning and scientific language. Have opportunities to share good practice (share examples of floor books)	-Teachers -SW	T1 T2 T3	Staff are reflective on their own practice and how their questioning can enhance learning opportunities for all children Good practice is shared and celebrated across the whole school	
	-Share website 'Explorify' and ask staff to sign up. Show staff the range of resources available and how they can be used effectively to promote science talk in the classroom.	-Teachers -SW	T1	Staff have a resource bank of starters and investigations and links to other sites that can support their teaching of science.	
% of children working at ARE or above in relation to the 'working scientifically' objectives to increase	-Teachers to complete short end of unit assessments or use assessment bookmarks to monitor progress and inform future teaching.	-All staff	T1 T2 T3 Time to analyse end of year working scientifically assessment	% of children working at ARE increased	
	-Work and planning scrutiny	-SW and KM	T1 and T3 Leadership time for SW to undertake the scrutiny	Evidence of working scientifically objectives shown not only through written work but shown in floor books too.	