

## WORKING SCIENTIFICALLY PROGRESSION – EASTON CE ACADEMY

DISCIPLINARY KNOWLEDGE STRANDS	EYFS	KS1 In year 2 with more independence	Year 3 and 4 In Y4 with more independence	Year 5 and 6 In Y6 with more independence	Deepening at UKS2
PLANNING	ASK QUESTIONS	RECOGNISE SIMPLE QUESTIONS CAN BE ANSWERED IN DIFFERENT WAYS	<p>USE DIFFERENT SCIENTIFIC ENQUIRY TYPES TO ANSWER/ASK RELEVANT QUESTIONS</p> <p>SET UP SIMPLE FAIR, COMPARATIVE AND PRACTICAL TESTS</p>	<p>ANSWER QUESTIONS BY PLANNING DIFFERENT SCIENTIFIC ENQUIRIES</p> <p>RECOGNISE AND CONTROL VARIABLES WHEN APPROPRIATE</p> <p>MAKE PREDICTIONS USING TEST RESULTS TO SET UP FURTHER FAIR AND COMPARATIVE TESTS</p>	<p>DEVELOP LINES OF ENQUIRY BY ASKING QUESTIONS BASED ON PRIOR KNOWLEDGE AND REAL-LIFE OBSERVATIONS</p> <p>MAKE PREDICTIONS USING SCIENTIFIC KNOWLEDGE AND UNDERSTANDING</p>
DOING	COMPARE SIMILARITIES AND DIFFERENCE WITH REGARDS TO OBJECTS, MATERIALS, LIVING THINGS AND PLACES OBSERVE ANIMALS AND PLANTS	<p>USING SIMPLE EQUIPMENT OBSERVE CLOSELY</p> <p>PERFORM SIMPLE TESTS</p> <p>IDENTIFY AND CLASSIFY</p>	<p>MAKE SYSTEMATIC AND CAREFUL OBSERVATIONS</p> <p>USING STANDARD UNITS MAKE ACCURATE MEASUREMENTS USING A RANGE OF EQUIPMENT</p>	<p>DRAW CONCLUSIONS BY IDENTIFYING PATTERNS THROUGH INTERPRETING OBSERVATIONS, MEASUREMENTS AND DATA</p> <p>IN RELATION TO PREDICTION AND HYPOTHESE PRESENT REASONED EXPLANATIONS</p> <p>SHOW UNDERSTANDING OF POTENTIAL SOURCES OF ERROR BY USING TO EVALUATE DATA</p>	TEST PREDICTIONS BY SELECTING, PLANNING AND CARRYING OUT A RANGE OF SCIENTIFIC ENQUIRIES
REVIEWING		GATHER AND RECORD DATA TO SUPPORT ANSWERING QUESTIONS	<p>GATHER, RECORD, CLASSIFY AND PRESENT DATA TO ANSWER QUESTIONS IN A VARIETY OF WAYS.</p> <p>USE SIMPLE SCIENTIFIC LANGUAGE, DRAWINGS, LABELLED DIAGRAMS, KEYS, BAR CHARTS AND TABLE TO RECORD FINDINGS</p>	RECORD RESULTS OF INCREASING COMPLEXITY AND PRESENT OBSERVATIONS AND DATA USING APPROPRIATE METHODS, E.G. SCIENTIFIC DIAGRAMS, CLASSIFICATION KEYS, TABLES, SCATTER, BAR AND LINE GRAPHS	USING A RANGE OF METHODS FOR DIFFERENT INVESTIGATIONS MAKE AND RECORD OBSERVATIONS AND MEASUREMENTS AND EVALUATE THE RELIABILITY OF THESE METHODS AND SUGGEST IMPROVEMENTS

EVALUATE	DISCUSS THE DIFFERENCE BETWEEN OWN ENVIRONMENT AND OTHERS, EXPLAIN WHY SOME THINGS HAPPEN AND HOW IT CHANGES	SUGGEST ANSWERS TO QUESTIONS USING OBSERVATIONS MADE	FROM ENQUIRIES REPORT ON FINDINGS, EXPLAINING (ORAL AND WRITTEN) AND PRESENT RESULTS OR CONCLUSIONS DRAW SIMPLE CONCLUSIONS FROM RESULTS, MAKE PREDICTIONS, SUGGEST IMPROVEMENTS TO ANSWER FURTHER QUESTIONS IDENTIFY DIFFERENCES, SIMILARITIES AND CHANGES RELATED TO SCIENTIFIC IDEAS AND PROCESSES	RECORD AND PRESENT FINDINGS INC CONCLUSIONS, RELATIONSHIPS AND EXPLANATION (INC VALIDITY, USING ORAL AND WRITTEN FORMS) IDENTIFY SCIENTIFIC EVIDENCE TO SUPPORT OR REFUTE SCIENTIFIC IDEAS OR ARGUMENTS	DRAW CONCLUSIONS BY IDENTIFYING PATTERNS THROUGH INTERPRETING OBSERVATIONS, MEASUREMENTS AND DATA IN RELATION TO PREDICTION AND HYPOTHESE PRESENT REASONED EXPLANATIONS SHOW UNDERSTANDING OF POTENTIAL SOURCES OF ERROR BY USING TO EVALUATE DATA
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