SOUTH WILTS GRAMMAR SCHOOL

Year 7 Standards – Science

Knowledge/skills These must relate to the CURRICULUM How far have students learned the curriculum?	Working **towards** SWGS Standard for end of Year 7	Working **at** SWGS Standard for end of Year 7	Working **beyond** SWGS Standard for end of Year 7
Investigative Skills	Identify some variables Follow a basic method Follow a simple risk assessment and take suitable precautions Make records of simple data	Identify the independent and dependent variables Decide on and follow a valid procedure when provided with suitable equipment. Produce a written description of the measurements to be taken with a diagram where appropriate. Identify hazards involved and carry out investigations safely Record results clearly in a table	Confidently identify the key variables in an investigation including the variables to be controlled Decide on and follow a valid procedure when provided with suitable equipment Write a clear step-by step method including how to take measurements. Including a scientific diagram where appropriate Identify significant hazards, suggest precautions and remedial actions and carry out investigations safely Record data in a table with correct quantities and units in table headings
Mathematical and Data Handling Skills	Calculate arithmetic means with support	Substitute values into an equation Calculate arithmetic means	Rearrange a three-part equation involving addition, subtraction, multiplication or division with support

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	Plot two variables from experimental data to produce a scatter graph or bar chart Describe a simple trend from a graph	Plot two variables from experimental data to produce a scatter graph or bar chart with correctly labelled axes and plotting Describe trends from a graph and link to relevant science	Calculate arithmetic means taking into account anomalous results Draw straight or curved trend lines on a scatter graph Link findings in data to theoretical knowledge and include data in description of the trend
Scientific Knowledge	Recall some scientific facts – typically achieving below 70% in knowledge-based assessments Use simple terms to describe scientific processes Make use of simple models to describe scientific processes	Consistently recall scientific facts – typically achieving 70% - 85% in knowledge-based assessments Regularly use subject specific terminology in the correct context Use models to communicate a scientific process	Consistently recall scientific facts and apply to familiar contexts – typically achieving above 85% in knowledge-based assessments Confidently use subject specific terminology in the correct context Use models to communicate a scientific process