YEAR 7 PROGRESS DESCRIPTORS KS3 TECHNOLOGY

	T GRADE	C GRADE	B GRADE	A GRADE
	When Designing Pupils use a basic variety of approaches to generate creative ideas. They use simple research and identify a context to engage with the iterative Design Process. They reformulate problems using a very limited approach.	When Designing Pupils use a variety of approaches to generate creative ideas. They use some appropriate research and identify a context to engage with the iterative Design Process. They reformulate problems using a partially functional approach.	When Designing Pupils use an adequate and appropriate variety of approaches to generate creative ideas. They use appropriate research and with some consideration identify a context to engage with the iterative Design Process. They reformulate problems using a functional approach.	When Designing Pupils use an outstanding variety of approaches to generate creative ideas. They use comprehensive research and with full consideration identify a context to engage with the iterative Design Process. They reformulate problems using an innovative approach.
	When Making Pupils select and use in a simple way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make basic decisions about choice of materials and ingredients, based on their properties.	When Making Pupils select and use in a progressive way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make some reasonable and justified decisions about choice of materials and ingredients, based on their properties.	When Making Pupils select and use in a progressive and meaningful way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make reasonable and justified decisions about choice of materials and ingredients, based on their properties.	When Making Pupils select and use in an accurate way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make outstanding decisions about choice of materials and ingredients, based on their properties.
	When Evaluating Pupils analyse in a superficial manner the work of past and present Designers and others. They reflect singularly upon the needs of users. They also in a rudimentary way test, evaluate and refine their own ideas and products against an incomplete specification.	When Evaluating Pupils analyse in a considered manner the work of past and present Designers and others. They reflect briefly upon the needs of users. They also test, evaluate and refine their own ideas and products against a modestly thoughtful specification.	When Evaluating Pupils analyse in a considered and meaningful manner the work of past and present Designers and others. They reflect upon a good range of users' needs. They also test, evaluate and refine their own ideas and products against a credible specification.	When Evaluating Pupils analyse in a detailed manner the work of past and present Designers and others. They reflect upon a comprehensive range of users' needs. They also test, evaluate and refine their own ideas and products against a comprehensive specification.
	When Developing & Using Technical Knowledge Pupils develop a basic understanding for the application of materials, nutrition, health and ingredients. They also develop a simple understanding for mechanical systems. Pupils also develop a basic understanding for electrical and electronic systems, applied computing and programmable components.	When Developing & Using Technical Knowledge Pupils develop some understanding for the application of materials, nutrition, health and ingredients. They also develop a progressive understanding for mechanical systems. Pupils also develop a progressive understanding for electrical and electronic systems, applied computing and programmable components.	When Developing & Using Technical Knowledge Pupils develop a competent and informed understanding for the application of materials, nutrition, health and ingredients. They also develop a good understanding for advanced mechanical systems. Pupils also develop a confident understanding for electrical and electronic systems, applied computing and programmable components.	When Developing & Using Technical Knowledge Pupils develop a comprehensive understanding for the application of materials, nutrition, health and ingredients. They also develop a competent understanding for advanced mechanical systems. Pupils also develop a competent understanding for electrical and electronic systems, applied computing and programmable components.

YEAR 8 PROGRESS DESCRIPTORS KS3 TECHNOLOGY

	T GRADE	C GRADE	B GRADE	A GRADE
	<u>When Designing</u> Pupils use a variety of approaches to generate creative ideas. They use some research and identify a context to engage with the iterative Design Process. They reformulate problems using a partially functional approach.	<u>When Designing</u> Pupils use an adequate and appropriate variety of approaches to generate creative ideas. They use appropriate research and with some consideration identify a context to engage with the iterative Design Process. They reformulate problems using a functional approach.	<u>When Designing</u> Pupils use a good variety of approaches to generate creative ideas. They use wide-ranging research and with some thought identify a context to engage with the iterative Design Process. They reformulate problems using a creative and functional approach.	<u>When Designing</u> Pupils use an outstanding variety of approaches to generate creative ideas. They use wide-ranging research and with some thought and clarity identify a context to engage with the iterative Design Process. They reformulate problems using an innovative and fully-functional approach.
	<u>When Making</u> Pupils select and use in a progressive way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make some reasonable decisions about choice of materials and ingredients, based on their properties.	<u>When Making</u> Pupils select and use in a progressive and meaningful way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make reasonable decisions about choice of materials and ingredients, based on their properties.	<u>When Making</u> Pupils select and use in a good way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make informed decisions about choice of materials and ingredients, based on their properties.	<u>When Making</u> Pupils select and use in an outstanding way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make competent and informed decisions about choice of materials and ingredients, based on their properties.
	<u>When Evaluating</u> Pupils analyse in a considered manner the work of past and present Designers and others. They reflect briefly upon the needs of users. They also test, evaluate and refine their own ideas and products against a limited specification.	<u>When Evaluating</u> Pupils analyse in a considered and meaningful manner the work of past and present Designers and others. They reflect upon a range of users' needs. They also test, evaluate and refine their own ideas and products against a credible specification.	<u>When Evaluating</u> Pupils analyse in a responsive manner the work of past and present Designers and others. They justify and reflect upon the needs of users. They also test, evaluate and refine their own ideas and products in some detail against a wide-ranging specification.	<u>When Evaluating</u> Pupils analyse in a consistent and responsive manner the work of past and present Designers and others. They thoughtfully justify and reflect upon the needs of users. They also test, evaluate and refine their own ideas and products in detail against a comprehensive specification.
	<u>When Developing & Using Technical Knowledge</u> Pupils develop some understanding for the application of materials, nutrition, health and ingredients. They also develop a progressive understanding for advanced mechanical systems. Pupils also develop a progressive understanding for electrical and electronic systems, applied computing and programmable components.	<u>When Developing & Using Technical Knowledge</u> Pupils develop an informed understanding for the application of materials, nutrition, health and ingredients. They also develop an adequate understanding for advanced mechanical systems. Pupils also develop a confident understanding for electrical and electronic systems, applied computing and programmable components.	<u>When Developing & Using Technical Knowledge</u> Pupils develop a wide-ranging understanding for the application of materials, nutrition, health and ingredients. They also develop a good understanding for advanced mechanical systems. Pupils also develop a competent understanding for electrical and electronic systems, applied computing and programmable components.	<u>When Developing & Using Technical Knowledge</u> Pupils develop an outstanding understanding for the application of materials, nutrition, health and ingredients. They also develop a wide-ranging understanding for advanced mechanical systems. Pupils also develop a confident and competent understanding for electrical and electronic systems, applied computing and programmable components.

YEAR 9 PROGRESS DESCRIPTORS KS3 TECHNOLOGY

	T GRADE	C GRADE	B GRADE	A GRADE
	<u>When Designing</u> Pupils use an adequate and appropriate variety of approaches to generate creative ideas. They use appropriate research and with some consideration identify a context to engage with the iterative Design Process. They reformulate problems using a functional approach.	<u>When Designing</u> Pupils use a wide variety of approaches to generate creative ideas. They use wide-ranging research and with some thought and clarity identify a context to engage with the iterative Design Process. They reformulate problems using both a functional and creative approach.	<u>When Designing</u> Pupils use a wide variety of good approaches to generate creative ideas. They use extensive research and with vision identify a context to engage with the iterative Design Process. They reformulate problems using both an extensive and functional approach.	<u>When Designing</u> Pupils use a variety of outstanding approaches to generate creative ideas. They use outstanding research and with vision identify a context to engage with the iterative Design Process. They reformulate problems using both an innovative and fully-functional approach
	<u>When Making</u> pupils select and use in a progressive and meaningful way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make reasonable decisions about choice of materials and ingredients, based on their properties.	<u>When Making</u> Pupils select and use in a competent way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make informed decisions about choice of materials and ingredients, based on their properties.	<u>When Making</u> Pupils select and use in a good way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make precise decisions about choice of materials and ingredients, based on their properties.	<u>When Making</u> Pupils select and use in an outstanding way appropriate tools, equipment, utensils, processes, techniques and computer-aided manufacturing. They make precise and justified decisions about choice of materials and ingredients, based on their properties.
	<u>When Evaluating</u> Pupils analyse in a considered and meaningful manner the work of past and present Designers and others. They reflect modestly upon the needs of users. They also test, evaluate and refine their own ideas and products against a modestly thoughtful specification.	<u>When Evaluating</u> Pupils analyse in a consistent and responsive manner the work of past and present Designers and others. They thoughtfully justify and reflect upon the needs of users. They also test, evaluate and refine their own ideas and products in some detail against a wide-ranging specification.	<u>When Evaluating</u> Pupils analyse in a good manner the work of past and present Designers and others. They reflect with empathy upon the needs of users. They also with clarity and detail test, evaluate and refine their own ideas and products against a competent specification.	<u>When Evaluating</u> Pupils analyse in an outstanding and comprehensive manner the work of past and present Designers and others. They reflect with vision and empathy upon the needs of users. They also extensively test, evaluate and refine their own ideas and products against an outstanding specification.
	<u>When Developing & Using Technical Knowledge</u> Pupils develop an adequate understanding for the application of materials, nutrition, health and ingredients. They also develop an adequate understanding for advanced mechanical systems. Pupils also develop a confident understanding for electrical and electronic systems, applied computing and programmable components.	<u>When Developing & Using Technical Knowledge</u> Pupils develop a wide-ranging understanding for the application of materials, nutrition, health and ingredients. They also develop a wide-ranging understanding for advanced mechanical systems. Pupils also develop a confident and developing understanding for electrical and electronic systems, applied computing and programmable components.	<u>When Developing & Using Technical Knowledge</u> Pupils develop a good understanding for the application of materials, nutrition, health and ingredients. They also develop a competent understanding for advanced mechanical systems. Pupils also develop a good understanding for electrical and electronic systems, applied computing and programmable components.	<u>When Developing & Using Technical Knowledge</u> Pupils develop an outstanding and extensive understanding for the application of materials, nutrition, health and ingredients. They also develop an extensive understanding for advanced mechanical systems. Pupils also develop an extensive understanding for electrical and electronic systems, applied computing and programmable components.
