

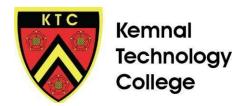


KTC CURRICULUM AMBITION AND IMPLEMENTATION











KTC Curriculum Ambition Growing Hearts, Inspiring Minds

KTC Ambition

We are a community of learners who share the mind-set of determination and ambition. Curriculum is the DNA of the college and our mission is to inspire and grow our young Kemnal Hearts and Minds.

Our curriculum is underpinned by the mission and values of the college and our TKAT family. Our shared and common purpose is to ensure that the curriculum shapes our students' learning and life chances so that they can achieve success within a safe, inclusive and ambitious environment.

At KTC, we work collaboratively to create a relevant curriculum that gets under the skin of our students, provides an outstanding learning journey which enables them to meet the challenges of the evolving world while developing their independent skills. We place our students at the very heart of our curriculum.

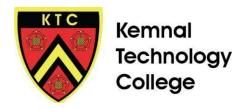




Reading critically for knowledge and understanding while promoting reading for pleasure

- Equipping students for the future
- Improving students' life chances and opportunities
- Understanding of our values and beliefs
- Engaging with the wider community

- Knowledge Rich Curriculum
- Skills to help students progress
- Broad and balanced
- Engage and achieve: ambitious but inclusive
- Developing our students' independent skills







Throughout our Kemnal Hearts Curriculum, we aim to grow every student's personal development by creating a sense of kindness and ambition, as well as an acceptance of others whose beliefs and attitudes may be different from our own.

Our Kemnal Hearts Curriculum is delivered through a combination of PSHE, extracurricular activities, enrichment opportunities and through reading. This aspect of our overall curriculum is centred around equipping our students with the skills and knowledge to allow them to be ambitious and globally informed citizens of the future.

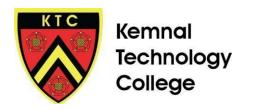
It is important to us that our students can contribute in a purposeful and meaningful way in our college as well as the wider community. It prepares our students with the skills and knowledge to be successful beyond our college doors.



Through our Kemnal Minds Curriculum, we aim to inspire and challenge our students to think critically and creatively while having the confidence to be inquisitive and independent in their learning.

We plan our curriculum collaboratively so all staff at KTC have an input on what is important for our students to learn, in order for them to achieve the very best academic results. Our curriculum is knowledge rich because we understand that a strong knowledge base will act as a gateway to other subjects, topics and disciplines.

At KTC we are passionate about reading as we know that this helps our students' learning and development in many ways. Reading is fundamental in our curriculum and we offer regular opportunities for this. Our aim is to instil a love for reading in our Kemnal Hearts and Minds.





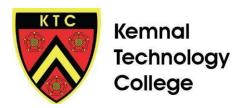


SEND Curriculum Ambition

At Kemnal Technology College, our ambition for Special Educational Needs and/or Disabilities (SEND) is to ensure that all children achieve their potential regardless of need or disability. We believe that it is vital that our students are encouraged to develop the knowledge and skills needed to become **ambitious, resilient and considerate learners** both inside and outside of the classroom.

Through our assessment, planning, teaching and provision we:

- Ensure that all children have access to a broad and balanced curriculum which is differentiated to enable children to follow the National Curriculum at a level and a pace that is appropriate to their abilities.
- Provide an accessible learning environment which is tailored to the individual needs of all children.
- Develop children's independence and life skills.
- Regularly monitor the progress of children with SEND, using a childcentered approach.
- Provide good quality and relevant training for all staff members supporting children with SEND.
- Work in partnership with parents and carers. Work closely with external agencies and other professionals to develop our provision for children with SEND.

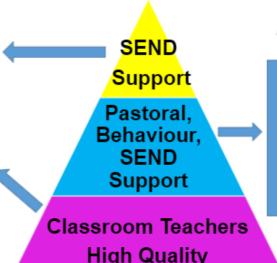






SEND Curriculum Support at KTC

- Individualised SEND support e.g 1:1 literacy/ numeracy/ phonics/ reading/ social skills
- · EHCP support
- · TA support in lessons
- Therapy sessions
- · Counselling and mentoring
- · Ambitious curriculum for all
- Fantastic 4 pedagogical model (retrieval of prior learning, challenging new content, applying knowledge and checking understanding)
- High challenge, low threat activities
- Regular opportunities to read for understanding and pleasure
- Shared strategies with all teachers and support staff
- Close communication with TAs and parents



Every Teacher at KTC is a teacher of SEND

- · Workshops in ICE
- Group interventions e.g Readers are Leaders Programme
- Ambition Tutor Programme
- · Football Beyond Borders
- · Strengthen Minds sessions
- · Regular PSHE sessions
- Wrap around care
- · Bromley wellbeing services
- · School wellbeing page



Pupil Premium Curriculum Support at KTC

Teaching

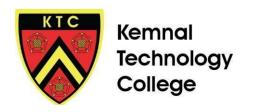
- · Workshops in ICE
- · Ambition Tutor Programme
- Football Beyond Borders
- · Strengthen Minds sessions
- Regular PSHE sessions
- Wrap around care
- Bromley wellbeing services
- School wellbeing page
- · Ambitious curriculum for all
- · PP info on seating plans
- Fantastic 4 pedagogical model (retrieval of prior learning, challenging new content, applying knowledge and checking understanding)
- · High challenge, low threat activities
- Regular opportunities to read for understanding and pleasure

PP Support

Pastoral, Behaviour, Support

Classroom Teachers
High Quality
Teaching

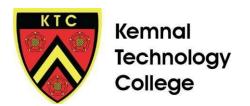
- Provide resources (ipads, clothing, books, stationary)
- Free Magic Breakfasts starting in Term 2
- Group interventions e.g Reading Matters Programme
- Year 11 Form Tutors contact home each week regards to academic support and well-being
- Extra- Curricular activities after school every day
- Individualised support e.g 1:1 literacy/ numeracy/ phonics/ reading/ social skills
- Teach First Tutors- English and Maths
- · Counselling and mentoring



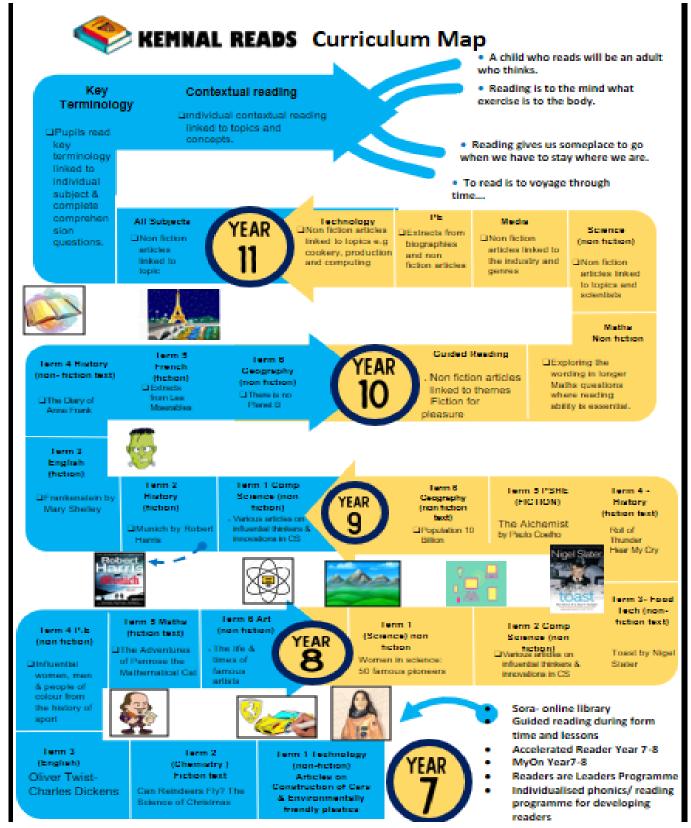


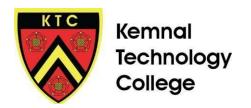


- We have designed a Curriculum Reading Map that has been co-constructed by all subjects to ensure reading is a priority across the school. This map is underpinned by the National Curriculum Reading Framework and we have taken into account the context of our students.
- Guided reading during form time twice a week and once a week for 60 minutes with their form class.
- We offer regular opportunities to read in all lessons in every subject and it's included in our pedagogical model.
- We ask all students to carry a reading book in their bag as there are opportunities to read for pleasure throughout the school day.
- Weaker readers in Years 10 and 11 take part in our TKAT Reading Matters Programme
- Bespoke reading programmes are delivered by our SEND Team to both KS3 and KS4 students.
- Reward points are given to spend in our shop for students who read regularly.
- Accelerated Reader Programme- Years 7-8.
- Year 7-8s will have access to MyOn where they can access Accelerated Reader books and take part in quizzes.
- Years 7-9 have regular library lessons where they can read and change books. Years 10-11 can do this at break and lunchtime.





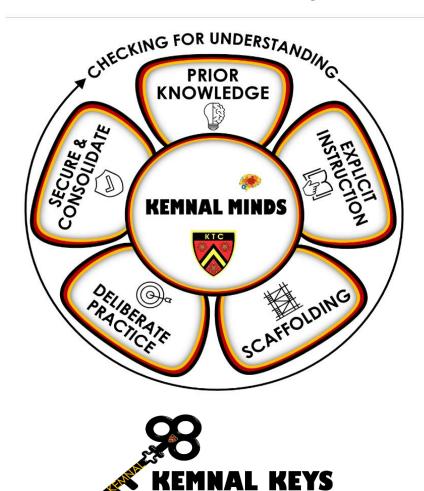






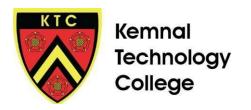
Our Pedagogical Model

This is how we deliver our Curriculum during lessons to ensure our students learn both knowledge and skills.



This is how we unlock our curriculum for our students, we document the 'core knowledge' they all deserve to know, regardless of their ability or need. The 'core knowledge' is followed by a set of retrieval questions/ activities. These are used in lessons, for homework and used in preparation for quizzes and assessments. They can all be found on our website in each subject tab on the following link.

Subjects - Kemnal Technology College (ktc-tkat.org)





Here's an example of a Year 7 Science Kemnal Key



Year 7 - Kemnal Keys 8



	Biology	Chemistry	Physics
1	Animal Cells: Nucleus, Cell Membrane, Cytoplasm,	In solids the particles are very close together.	There are 7 types of energy stores; Thermal, Kinetic,
	Mitochondria and Ribosomes.	In liquid the particles are close together but can move	Chemical, Gravitational Potential, Elastic Potential,
	Plant Cells contain all the above as well as Cell Wall,	in any direction.	Electrostatic and magnetic.
	Vacuole and Chloroplasts.	In a gas the particles are very far apart and move	
L		quickly in all directions.	
2	Eukaryotic cell any cell or organism that possesses a	Solids – difficult to squash, can't be poured, can't	Conservation Law of Energy: Energy cannot be
	clearly defined nucleus	change shape	created or destroyed, it can only be transferred from one store to another.
	A markement of a closely closely collect averaging that	Liquids – difficult to squash, can be poured, can	
1	A prokaryote is a simple, single-celled organism that lacks a nucleus and membrane-bound organelles	change shape	Energy transfers are never gerfect, energy will
	lacks a nucleus and memorane-bound organelles	Gas – can be squashed, can be poured, can change shape	always be wasted.
1			Total Energy Input = Useful Energy + Wasted Energy.
3	Specialized cells are cells that carry out a particular	Intermolecular forces hold particles in their positions Pure substance – contains only one type of particle.	Gravitational Potential Energy: Anything in a
1 3	job. They have features that make them good at their	<u>Fure substance</u> – contains only one type or particle.	gravitational Feld. (anything that can fall). The
	role. Example :a root hair cell has large surface area to	Mixture – made up at least two pure substances.	higher up = more energy stored.
	absorb water	Mixture - made up at least two pure substances.	inglier up = more energy storeu.
4	Cells are too small to see, so we use a microscope to	Simple distillation can separate a liquid and a solid.	Kinetic Energy: Anything that is moving. Examples;
-	view them. Magnification is the process of enlarging	Fractional distillation can separate a mixture of liquids	Cars
	the apparent size, not physical size	like crude oil.	Cars
5	Nucleus – the information centre of the cell	Chromatography is a lab technique for separating	Elastic Potential: Anything that is being stretched or
	Cytoplasm – chemical reactions take place	components of a mixture - they travel through paper	compressed. Example; Springs
	Cell membrane – controls what goes in and out of the	at different speeds.	
6	cell		Chemical Energy: Anything with energy that can be
1	Mitochondria – powerhouse of the cell, creates	Filtration – separates insoluble solids from liquids. EG	released by a chemical reaction. Examples; Food,
	energy through respiration	Sand and Water.	fuel.
	Ribosome – makes protein to support cell operation.		
	Cell Wall – gives the cell shape	Evaporation – separates soluble solids from liquids.	Renewable Energy – Energy sources that will never
	Vacuale stores nutrients for the cell	EG Salt and Water	run out.
	Chloroplasts – contains chlorophyll which are needed		Non –renewable Energy – energy sources that will
	for photosynthesis.		run out one day.

Quiz Time

Week 1 Quiz

Identify the 5 parts (organelles) of an animal cell Which 3 organelles does a plant cell have that an animal cell does not?

Identify 3 types of energy stores

Particles are tightly packed and regular in which type of matter?

In a gas the particles move in all directions very _

Week 2 Quiz

What cell has a clearly defined nucleus? What type of forces hold particles in their positions? What is the conservation law of energy? There is both useful energy and ______energy
Place Solid, Gas and Liquid in order of particles containing the most energy

Week 3 Quiz

Where will an aeroplane have more GPE, on the runway or in the air?

Describe a specialized cell.

Describe a pure substance Describe a mixture

Why would a root hair cell have a large surface area?

Week 4 Quiz

In science, enlarge the image of cells so we can study them Describe the difference between simple and fractional distillation Describe the term kinetic energy Describe the process of using a microscope

Describe the particle arrangement of liquid

Week 5 Quiz

Name 3 parts of a cell and describe their role Describe the process of chromatography Describe elastic potential energy Identify an object that could have elastic potential energy True or False a eukaryotic cell has a clearly defined

Week 6 Quiz

Identify 3 parts of a plant cell and describe their role Describe the process of filtration Describe the process of evaporation Describe the differences between renewable and nonrenewable energy Give an example of chemical energy