Smiling International School

7th GRADE

CURRICULUM TOPICS

A.S.2026-2027

VISUAL ARTS

Unit	Topic	Main Points
1	(Recap) Art History and Cultural Evolution: • Introduction to world art history • Art periods and movements in recorded history	Understand the fundamental difference between an art period and an art movement.
2	Medieval to Renaissance Artistic Revolutions • Art of the Middle Ages (Byzantine, Romanesque and Gothic). • The Renaissance: timeline and transition • Great masters of the Early and High Renaissance • Great masters of the Baroque	• Analyze the conceptual and stylistic shift from the symbolic, sacred art of the Middle Ages to the humanism of the Renaissance. • Study how historical masters changed the rules of space, anatomy and light.
3	Evolution of artistic concepts and technologies	Reflect on the role of visual arts in society and the distinction between art and craft.
4	Visual Grammar • Elements of art (line, shape/form, space, value, color, texture) • Principles of design (contrast, balance, emphasis, proportion, harmony, unity) • Studio safety, tools, and art materials	• Master the visual alphabet (the elements) and composition rules (the principles). • Learn to safely and effectively handle tools and materials in the art studio
5	Introduction to the Portfolio and the Process Journal	• Maintain and structure the Process Journal to document personal experimentation and reflection.

6	History and fundamentals of drawing	Develop observation skills ('learning to see') and the representation of form.
7	From Drawing to Painting: Portraiture and Color • Portrait drawing techniques and facial proportions • History, themes and subjects of painting • Transition from drawing into painting • Color theory and painting techniques	• Draw a realistic, front-view portrait using proportional guidelines. • Understand how to successfully translate a pencil drawing into a painted artwork. • Explore the expressive use of color and apply various painting techniques, following the creative stages from concept to canvas.

Links with Citizenship

Interdisciplinary project Visual Arts-History-Citizenship-Science: focus on Anselm Kiefer.

- Visual Arts (material transformation): in his recent exhibition, *Le Alchimiste,* Kiefer brings together a constellation of famous and forgotten female figures, including Isabella Cortese, Mary of Judea, Marie Meudrac, Rebecca Vaughan and Mary Anne Atwood. Through his textural and symbolic paintings, the artist restores the faces and bodies that have been erased from history, thereby acknowledging the crucial role played by female alchemists in the emergence of modern scientific thought. Known as the *Lioness of Romagna*, Caterina Sforza was one of the most influential and fierce women of the Italian Renaissance. Beyond her political power, she was an extraordinary experimental alchemist and apothecary.
- Citizenship (Gender Equality and Historical Justice): students reflect on how women who pursued botany, chemistry (alchemy), or medicine during the Middle Ages and the Renaissance were often marginalized, labeled as "witches," or denied intellectual recognition.
- Empowerment and Diversity: through Kiefer's art—which restores monumental dignity to these women—students address gender equality in STEM and the arts, reflecting on the importance of recognizing and amplifying historically silenced voices.
- Science: students explore physical and chemical transformations (such as the

oxidation and weathering processes Kiefer applies to his metals) and trace the historical evolution from medieval alchemy to modern chemistry. + Practical Studio Project: "The Alchemist's Dress".

CHINESE

Unit	Topic	Main Points
0	**Introduction to the course and general review**	- Introduction to the course and new students - Introduction to the HSK1 exam - Summer homework delivery and check - General review of the previously studied units
1	进步 **1**, **UNIT 3** 爱好 **Hobbies** **QUICK REVIEW**	Communication and vocabulary - Talking about what you do in your free time - Discussing what you like doing - Talking about sports and abilities - Learning the days of the week - Self-presentation Grammar - New expressions of time - The verb **喜欢** (all forms) - Sports and hobbies' related vocabulary - The verb **会** (all forms) - Languages - Position of time expressions in a sentence - Order of elements BIGGEST-SMALLEST
2	进步 **1**, **UNIT 4** **学校** **School**	Communication and vocabulary - Talking about school subjects - The clock - Discuss your school timetable - Talking about school in China - Discovering schools in China and compare them to the Italian school system - 高考 Grammar - School related vocabulary - The clock (all forms) 1. n**点**n**分** 2. 钟，一刻，半，三刻 3. **差**n**分**n**点**

		- Difference between **什么** and **哪** - The measure word 节 - The superlative prefix **最** - Locative verbs **去，来，在，回** - **在** verb vs. preposition - Places in a city
3	进步 **1，UNIT 5** **食品和**饮料 **Food and drinks**	Communication and vocabulary - Food and drinks related vocabulary - Talking about what you like eating and drinking - Talking about mealtimes - Ordering in a restaurant - Describing your daily routine - Regional food - The culture of tea - Recycling in China Grammar - The modal verb 想 - Interrogative pronoun 多少 - The verb **吃** - The verb **喝** - Measure words **杯，瓶，份** - Meals and restaurant related vocabulary - **用** verb vs. preposition - Parts of the day - Daily routine activities
4	进步 **2，UNIT 1** **假期** **Holidays**	Communication and vocabulary - Talking about the weather and using different time frames - Talking about different countries and languages - Talking about where you like to go on holiday - Talking about different means of transport - Using past time markers to talk about where you went on holiday - How Chinese people spend their holidays - Sustainable development of transport in China Grammar - The interrogative pronoun 怎么样 - Adjectives (attributive function vs. adjectival predicate) - Seasons and seasonal weather - Places you go on holiday - Prepositions 跟/和。。。（一起）

		- Means of transport and the interrogative pronoun 怎么 - The prepositions 坐 and 骑 - 了 particle after VERBS
5	**<u>Introduction</u> to 进步 2, UNIT 2** **我** **All about me**	Grammar and vocabulary - Physical description using adjectives - House related vocabulary - House and room's description - Existential sentences (structure with 有 and structure with 在) - Localizers/relative place words - New measure words - Colors - Clothes - Structure 是。。。的 - Daily routine - Fashion sustainability in China and the world of fast fashion industries
Links with Citizenship		
UNESCO		- Focus on UNESCO sites with cultural importance - China World heritage sites
Culture and folk traditions		- Chinese festivals - Interdisciplinary Project Chinese-Spanish: traditions and food culture - Interdisciplinary Project Chinese-Art: Ceramic narrative vases - Interdisciplinary Project Chinese-History: discovering the history of China - Recycling in China - Sustainable development of transport in China - Chinese cuisine and the culture of tea - The Chinese school system
SPEAKING AND READING		- TV series in Chinese - Books (materials will be provided by the teacher) - HSK 1 Exam Preparation

Unit	Topic	Main Points
	Grammar & Vocabulary	
1	**Parts of Speech/ Word Choice/ Word Transformation**	-comparative and superlative adjectives -gradable and non-gradable adjectives -adjectives: prefixes and suffixes, adjectives with *-ed* or *-ing*, adjective order -relative clauses -reported speech, reported commands, reported questions, indirect questions
2	**Verb Tenses**	-future forms -used to -phrasal verbs - modal verbs -verbs followed by infinitive or -ing form -zero, first, second conditionals -past perfect -imperative: commands and instructions -passive: present simple, past simple
3	**Vocabulary**	-describing people -feelings -food and drink -phrasal verbs with *put* -health -house and home -places and buildings -going out: *been/gone, meet, get to know, know, find out* -the natural world, environment, animals, weather -holiday activities: *travel, journey, trip, transport*
4	**Usage & Expressions**	-*extremely, fairly, quite, rather, really, very, too, enough* -*when, if, unless* + present/future -*have something done*
	Writing	
5	**Mechanics and Structure**	-punctuation & capitalization -paragraph organisation -linking and transition words -formal versus informal
6	**Writing Preparation**	-writing part 1 - writing an email -writing part 2 - writing an article -writing part 2 - writing a story
7	**Introduction to essays**	-expository writing -descriptive text
	Literature	
8	**Elements of Literature**	-plot and subplots -setting and atmosphere

		-character traits and character development -theme vs motifs -point of view and narrator
9	**Play Studies**	-The Merchant of Venice by W. Shakespeare (Black Cat Edition) -introduction to Elizabethan Era and Shakespeare's life/career, definition of Shakespearean comedy, Venice's racial history and prejudices of the Jewish faith, plot and characters, rewriting and dramatisation of scenes. Exploring themes of friendship, wealth, justice, race. -Macbeth by W. Shakespeare (Black Cat Edition). -Introduction to the Jacobean era, definition of Shakespearean tragedy, Scotland's history, Witches and the castles of Scotland. Exploring themes of gender roles, ambition, fate, tyrannical power, reality vs appearances, supernatural forces, madness and violence. Performing a scene.
Poetry		
10	**Poetry**	-figurative language & poetic devices
11	**Poetry Studies**	-selected poems from the Romantic age.
12	**Speaking, Presentation Skills, Debate and Discussion**	- expression, notes for presentations, engaging the listener, building confidence -constructing an argument, using evidence, forming clear sentences and following a narrative, responding to a question, using humour.
Link with Citizenship		
Diversity and Inclusion		-Exploring prejudice and discrimination through Shakespeare and the history of Venice's Jewish community
Gender and Equality		-Examining the representation and changing roles of women in literature and society
Sustainability		-Exploring environmental issues through discussion and debate; understanding collective responsibility

GEO-HISTORY

Unit	Topic	Main Points
1	**Introduction**	-revision -introduction to the concept geopolitics - physical Europe and birth and main institutions of the European Union - forms of government

2	**Birth of National Monarchies**	England and modern-day UK	-the birth of the English nation -William the Conqueror -the *Magna Carta Libertatum* -physical features, political system, economy, geopolitical features, and Brexit in the modern-day United Kingdom
		France	-the birth of France -Philip the Fair versus Pope Boniface VIII -the Estates General -the Avignon Papacy -the Western Schism -physical features, politics, economy, geopolitical features, ISIS, and terrorist attacks in modern-day France
		Spain	-the birth of the Spanish nation and the Reconquista
		German Holy Roman Empire	-the structure of the Holy Roman Empire and the significance of the Golden Bull
		Ottoman Empire	-the creation and early expansion of the Ottoman Empire and its position between Europe and Asia
3	**The Fourteenth and Fifteenth Centuries**	The Hundred Years' War	-causes, major phases, principal figures, consequences, and the development of English and French national identities
		The Italian situation	-political fragmentation among Italian states -major powers and city-states -brief review of modern-day Italy and its geopolitical features
		The balance of power	-diplomatic alliances and rivalries among European states -the development of the balance-of-power system
		Humanism and Renaissance	-Humanist thought, renewed interest in classical culture, artistic innovation, scientific inquiry, and the cultural importance of Italian cities

4	**Early Modern Age: Renaissance, Humanism, and Early Exploration**	Geographical discoveries	-motivations for exploration -advances in navigation -major voyages -encounters between Europe and other regions -consequences for peoples, trade, and empires
		Italian Wars and Charles V	-conflicts among European powers in Italy; the role of Charles V -the relationship between the Habsburg Empire, France, and the Italian states
		Henry VIII of England and the Anglican Church	-Henry VIII's break with Rome -the establishment of the Church of England -political and religious consequences
		Modern-day Spain	-physical features, political system, economy, population distribution, and Spain's role in Europe and the wider world
		Modern-day Portugal	-physical features, political system, economy, and the Carnation Revolution
		Protestant Reformation and Counter-Reformation	-causes and main figures of the Protestant Reformation -the spread of Protestant churches -the Counter-Reformation and the Council of Trent
		Modern-day Germany and Switzerland	-Germany: physical features, politics, economy, geopolitical features, and the Berlin Wall -Switzerland: physical features, politics, and economy
5	**Modern Conflicts (Sixteenth Century)**	Philip II of Spain	-Philip II's monarchy, religious policy, imperial ambitions, administration, and conflicts with other European powers
		The Netherlands and Belgium	-physical features, political systems, economies, historical development, and the relationship between the Netherlands and Belgium
		Greece	-physical features, political system,

			economy, historical context, and geopolitical features in the eastern Mediterranean
		Elizabeth I of England	-Elizabethan government, religious settlement, economic development, cultural achievements, and England's growing maritime power
		Elizabeth I versus Philip II: the Spanish Armada	-causes of the conflict, the attempted invasion of England, the defeat of the Spanish Armada, and its political and geopolitical consequences
		Religious intolerance and religious wars in France	-conflicts between Catholics and Protestants, the French Wars of Religion, the St. Bartholomew's Day Massacre, and the Edict of Nantes
		An example of religious tolerance: Poland	-religious coexistence in the Polish–Lithuanian Commonwealth and -modern-day Poland: physical features, politics, economy, and European position
6	**Seventeenth Century**	European economy and Triangular Trade	-economic change, mercantilism, colonial trade, the Atlantic system, and the Triangular Trade
		The Scientific Revolution	-new methods of observation and experimentation -major contributions of Copernicus, Galileo, Kepler, Newton, and others
		The Thirty Years' War and Northern Europe	-causes, phases, and consequences -modern-day Czech Republic; physical features, politics, and economy of Denmark and Sweden
		France: Richelieu, Mazarino, and Louis XIV	-centralization of royal power, absolutism, the policies of Cardinal Richelieu and Cardinal Mazarino, and the reign of Louis XIV
		England: Charles I, Oliver Cromwell, and the Glorious	-conflict between the monarchy and Parliament; the English Civil War -the Commonwealth under Oliver Cromwell -the Glorious Revolution and

		Revolution	constitutional monarchy
7	**Eighteenth Century**	The Age of Enlightenment	-reason, scientific progress, individual rights, separation of powers, social contract, religious tolerance, and the influence of Enlightenment thinkers
		The Enlightened despots and modern-day Austria	-reforms associated with enlightened absolutism; examples including Maria Theresa and Joseph II -physical features, politics, and economy of modern-day Austria
		The Industrial Revolution	-origins in Britain -technological innovations -factories, urbanization, social change, transportation, and the development of industrial society
		The American Revolution	-causes of the colonial revolt -independence from Britain -the Declaration of Independence -the creation of the United States
		The French Revolution	-causes, the Estates system, the fall of the monarchy, the Republic, the Reign of Terror, and the political and social consequences of the Revolution
		Napoleon Bonaparte	Napoleon's rise to power, reforms, military expansion, European empire, the Napoleonic Code, and the end of his rule.
Links with Citizenship			
Constitution, Law & Legality			- knowledge of the principles and values of the European Union - religious freedom -constitutional document decoder: examination of the Magna Carta, the U.S. Constitution, and the European charters
Economic Development & Sustainability			- biodiversity and ecosystem protection - climate change - exploitation vs sustainable development - banking, gold, and global trade
Digital Citizenship			- printing press to podcast: tracking power and access to information

Respect and Enhancement of Cultural Heritage	- Medieval and Renaissance heritage as modern identity (architecture, art, literature)

ICT

Unit	Topic	Main Points
1	**Introduction to Artificial Intelligence**	- What is Artificial Intelligence? - AI in everyday life - Human intelligence vs Artificial Intelligence - Opportunities and limitations of AI
2	**Generative Artificial Intelligence**	- What is Generative AI? - Traditional AI vs Generative AI - How AI can generate text, images, audio and video - Responsible use of Generative AI
3	**AI Processors and Hardware**	- Why Artificial Intelligence requires powerful computers - Introduction to CPUs and GPUs - AI processors and accelerators - Why different processors are designed for different tasks
4	**Computers That Understand Our Language**	- How computers process human language - Introduction to Natural Language Processing (NLP) - Chatbots and voice assistants - Language models - Why computers sometimes misunderstand people
5	**Prompt Engineering**	- What is a prompt? - How to communicate effectively with Generative AI - Writing clear and detailed prompts - Understanding how different prompts can produce different results
6	**The Limits of Artificial Intelligence**	- How and why AI can make mistakes - Ambiguity and misleading information - Context and hidden assumptions - Critical thinking when using AI - Understanding AI-generated errors
7	**From Imagination to Image**	- How AI image generation works at a basic level - Using detailed prompts to create images - Style, composition and visual creativity - Responsible AI image generation

8	**Creating Videos with Artificial Intelligence**	- AI-assisted video creation - Planning a short multimedia project - Storytelling and storyboards - Combining text, images, sound and video
9	**Introduction to Programming with Python**	- What is programming? - Why computers need code - Writing and running simple Python programs - Instructions and sequences - Introduction to variables
10	**Drawing with Python**	- Using programming to create visual designs - Movement and coordinates - Angles and repetition - Combining creativity and computational thinking - Creating original digital artwork
11	**Introduction to Arduino**	- What is Arduino? - Computers vs microcontrollers - Introduction to physical computing - How code can control physical objects - Basic Arduino components and projects
Links with Citizenship		
Digital Citizenship Education		-effective online communication
International Days		-International Day Against Bullying and Cyberbullying

GYM

Unit	Topic	Main Points
1	Self awareness and analysis	- Beep test (20 meter run) - 10 minute run - 5 continuous jumps (m) - Upper body lifts (crunches) - Push ups - Mobility (Clock tests) - Squat (mobility and strength) - Lower back extension - Shoulder mobility - Reaction test - Throwing and Catching
2	Rhythm in Movement	- Dance warm-up - Bouncing balls in rhythm - Rope skipping

		- Jumping in rhythm in groups through circles - Counting steps before a kick or jump
3	Spatial Awareness and Cinesthetics	- Line tag - Walk - Run - Sprint - Stop - Don't Touch - Copy-cat - Copy-cat in groups (images) - Nose finger touches - Space invaders - Moving in couples
4	Ball skill-sets	- Dribbling basketballs - Dribbling footballs - Bager, Setting and Serving Volleyballs - Throwing and catching tennis balls - Bowling balls - Throwing dodgeballs - Hitting badminton birdies with racquets - Striking a ball with a baseball bat
5	Developing general fitness	- Sit ups - Push ups - Plank - Squat - Lunges - Pull ups - Tricep Push ups - Star jumps - Burpees

ITALIANO

Topic	Main Points
	Grammatica
I verbi	-coniugazioni in -are, -ere, -ire - persona e numero -modi e tempi: finiti e indefiniti -il genere transitivo e intransitivo -la forma attiva, passiva e riflessiva -verbi impersonali, servili, fraseologici e irregolari
Gli avverbi	- gli avverbi primitivi, derivati e composti - avverbi di modo, tempo, luogo, quantità, affermazione, negazione e dubbio - il grado positivo, comparativo e superlativo
Le preposizioni	- preposizioni proprie: semplici e articolate - preposizioni improprie: aggettivi, avverbi e verbi
Le congiunzioni	-forma semplice e composta

	-congiunzioni coordinanti: copulative, disgiuntive, avversative, dichiarative, conclusive e correlative - congiunzioni subordinanti: dichiarative, modali, finali, causali, temporali, concessive, comparative e interrogative
Epica/ Letteratura	
Epica medievale	-confronti con l'epica classica -l'epica cavalleresca: contesto storico, luoghi, lingua e personaggi -la trasmissione delle *geste* e i giullari -il ciclo carolingio e la *Chanson de Roland* -il ciclo del Cid spagnolo - il ciclo nordico dei Nibelunghi - il ciclo bretone di Re Artù
La nascita della letteratura italiana	-Contesto storico - la nascita del volgare e confronto con il latino - Dante Alighieri: vita e opere - Francesco Petrarca: vita e opere - Giovanni Boccaccio:vita e opere - Matteo Maria Boiardo: vita e opere - Ludovico Ariosto: vita e opere - Torquato Tasso: vita e opere
Antologia	
Il testo narrativo	-il narratore -il tempo del racconto -il ritmo narrativo e la suspense -i personaggi -i luoghi -scrivere il riassunto di un testo narrativo
Genere: Il racconto comico-umoristico	-le caratteristiche del genere -Lettura e analisi di brani scelti
Genere: Il racconto horror	-le caratteristiche del genere -lettura e analisi di brani scelti fra i maggiori autori del genere
Genere: Il racconto giallo	-caratteristiche di un racconto giallo -lettura di brani a scelta
La lettera, il diario e l'autobiografia	-la lettera personale -struttura e caratteristiche della lettera personale -lettura di brani scelti -il diario personale -struttura e caratteristiche del diario personale -lettura di brani scelti -la struttura e le caratteristiche dell'autobiografia -lettura di brani scelti
Links with Citizenship	

Respect and Enhancement of Cultural Heritage	-Ferrara and its cultural wealth

MATHEMATICS

Unit	Topic	Main Points
1	**Rational Numbers: Decimals and Fractions**	-decimal numbers -from fractions to decimal numbers -from decimal numbers to fractions -operations and expressions with decimal numbers
2	**Root extraction and Irrational Numbers**	-definition -how to calculate square roots -properties of square roots -use of square roots table -irrational numbers
3	**Ratio and Proportion**	-magnitude ratios -scale representations -proportion and its properties -calculation of the unknown -percentages -problems with percentages -directly and inversely proportional magnitudes -principles of proportionality and graphical presentations -proportionality problems: the Rule of Three (simple proportion) and distribution
4	**Functions**	-what is a function -types of function -problems with functions
5	**Equivalence and Area of Flat Shapes**	-flat figures -equivalent and equidecomposable flat figures -definition of surface and area -how to calculate the area
6	**Pythagorean Theorem**	-primitive and derivative Pythagorean triples -Pythagoras' theorem -applications of the Pythagorean theorem to flat figures
7	**Similarity**	-definition -criteria for similarity
8	**Circumference and Circle**	-definition -parts of circumference and circle -circumference, points, and lines -angles at circumference and circle

		-pairs of circumferences
9	**Circumscribed and Inscribed Polygons**	-inscribed and circumscribed polygons -area of a circumscribed polygon -regular polygons -area of a circumscribed regular polygon

MUSIC

Unit	Topic	Main Points
1	**Medieval Music**	-Liturgical music -Gregorian chants
2	**Choir**	-division of voices in a choir -discussion on exclusion of women in music
3	**Medieval Instruments**	-percussions -strings -winds -organ vs piano
4	**Renaissance Music**	-Secular music vs Sacred music -Madrigali -Renaissance music instruments
5	**Baroque Music**	-the big return of improvisation -exaggeration
6	**Baroque composers**	-Bach -Vivaldi -Handel
7	**Classical music**	-Definition and new elements
	Classical composers	-Beethoven -Mozart -Haydn
8	**Romantic era**	-different meaning of romantic -the influence of the time period on the music
9	**Romantic composers**	-Wagner -Brahms -Paganini -and many more
10	**Orchestra**	-Instrument families and positions
11	**Modern Classical music**	-Overview of modern composers and compositions
12	**Theory**	-Major and minor chords -Triads and inversions -Circle of fifths

PRODUCTIVE THINKING

Unit	Topic	Main Points
0	Introduction to Productive Thinking	- Classroom agreement - Rules of respectful discussion - Active listening - Difference between debating and arguing - Building a safe learning environment
1	Respect & Tolerance	- Dictionary definition of respect and tolerance - Empathy - Diversity - Respecting different opinions
2	Self-Esteem & Self-Awareness	- Self-esteem vs confidence - Growth mindset - Personal strengths - Reflection - Identity
3	Stereotypes & Prejudice	- Dictionary definitions - Cognitive biases - First impressions - Inclusion - Challenging stereotypes
4	Managing Emotions & Criticism	- Emotional awareness - Constructive criticism - Emotional regulation - Resilience
5	Conflict Resolution	- Fair Play - Mediation - Communication strategies - Accountability vs Dismissal

Links with Citizenship
International organisations (UN, NATO, WHO) Substance abuse prevention and healthy life choices Responsible use of social media

SCIENCE

Unit	Topic	Main Points
1	Introduction to chemistry	- The atom and its structure: protons, neutrons and electrons -The Periodic Table -The electron configuration -The chemical bonds (ionic, covalent, metallic)
2	Chemical Reactions	-Physical and chemical transformations -Simple substances and compounds -Symbols and formulas -Lavoisier's laws -Oxidation and combustion -Acids, bases, salts -pH: meaning and scale
3	Introduction to Anatomy	The Human body: an interaction of different parts
4	The Integumentary System	-The layers of our skin (epidermis, derma, hypodermis) and their functions.
5	The Locomotor System: the skeleton system	-The structure and function of the skeleton -The bones of the human body: shape and structure and their position in the human body -The fixed, mobile and semi-mobile articulations and joints
6	The Locomotor System: the muscular system	-The muscles structure and their functions -The muscle contractions -The movements enabled by the muscles and their correlation with levers (short introduction to physic)
7	The Digestive System	-The food and nutrients -The system structure and its functions including the accessory organs
8	The Respiratory System	-The respiration process: the cellular respiration and the breathing throw the lungs -The composition of inhaled and exhaled air
9	The Circulatory	-The functions of the circulatory system

	System	- The heart and how it works - The blood: corpuscles and plasma -The blood vessels: veins and arteries and capillaries - The strictly correlation between the lymphatic system and the circulatory system
10	Introduction to Physic: the Motion	-characteristics of linear motion -velocity vs speed -graphical representations of motion -uniform rectilinear motion: direct formula and graphic representation -various motion: graphic representation -uniform accelerated motion and its representation
	The Basics of Dynamics	-definition of force -effect of forces -the composition of forces -I, II and III principles of dynamics (Newton's laws)
Links with Citizenship		
Bonus Lab Hour: No Explosions, We Promise!		Every week, we give students one extra hour of dedicated lab time to bring science to life. In a perfectly safe environment, they get to mix things, test theories, and build serious practical skills. It's the ultimate proof that what we study in class isn't just homework - it's how the real world actually functions.

SPANISH

Unit	Topic	Main points
3	**ME GUSTA VERTE SONREÍR** **Likes and preferences; free time**	-communication: asking about and expressing likes and preferences; expressing agreement and disagreement. -vocabulary: sports, free-time activities, moods and physical states. -grammar: indirect object pronouns, gustar and similar verbs, muy/mucho, estar, estar + gerundio
4	**¿A QUÉ HORA VUELVEN?** **Daily routine and habits**	-communication: asking and telling the time, talking about habits, talking about frequency -vocabulary: daily habits, school subjects, household chores, food -grammar: stem-changing verbs e-ie / o-ue / e-i, irregular verbs in the 1st person singular -culture: meals in Spain

5	**AQUÍ ESTÁ LA CAMA** **The home**	-communication: describing the home and its rooms -vocabulary: rooms in the home, descriptive adjectives, furniture -grammar: hay/está, están. -culture: Gaudí's Modernisme, los patios
Links with Civic Education		
	Rights, equality and respect for differences	• Human rights, equality and non-discrimination. • Respect for personal, cultural and family differences. • Recognising and overcoming prejudice and stereotypes.
	Cultural heritage and identity	• Antonio Gaudí and Spanish artistic heritage. • Los patios as an element of cultural heritage and community life. • Learning about and valuing the cultural heritage of different countries.
	Health and well-being	• Balance between study, free time and rest. • Daily habits and healthy lifestyles. • Nutrition and well-being.
	Responsibility and equal opportunities	• Collaboration in household tasks and daily life. • Fair sharing of responsibilities within the family. Reflection on stereotypes linked to household roles.
	Cultural diversity	• Daily routines and eating habits in Spain. • Comparison of lifestyles, school, languages and traditions in different countries.

TECHNICAL DRAWING AND TECHNOLOGY

Unit	Topic	Main Points
1	**Climate change**	-what is climate change -global point of view
2	**Crops and Livestock Farming**	-description -techniques and technology -investigation of local farming
3	**Food and Nutrition Education**	-what the world eats -nutrition facts on food labels -healthy lifestyles
4	**Food Industry**	-from farm to table -techniques and technology used in food production

		-slow vs fast food -environmental impact of the food industry (deforestation, animal mistreatment, genetically modified foods, etc.
5	**Food Preservation**	-types of methodologies: natural and chemical -benefits and consequences of food preservation
6	**Waste, Pollution, Sustainability**	-what is waste -ways to reduce waste -main pollution causes -responsible consumerism
7	**Orienteering**	-orientation with compasses -geographic coordinates -map features -map classification according to the scale used -from earth's surface to map
8	**Reproduction of Scale Drawings**	-scale representations -scale drawing -scale drawings using the grid method -reduction and enlargement of geometric figures -practical activities
9	**Orthogonal Projections**	-Graphic representations in the plane and in space: technique of orthogonal projections