

Unit 06: La ciencia y la tecnología

Content Area: **Template**
Course(s):
Time Period: **Full Year**
Length: **FY**
Status: **Published**

Standards Alignment

New Jersey Student Learning Standards

WL.7.1.IH.A	Interpretive Mode
WL.7.1.IH.A.1	Analyze and critique information contained in culturally authentic materials using electronic information and other sources related to a variety of familiar and some unfamiliar topics.
WL.7.1.IH.A.2	Demonstrate comprehension of spoken and written language as expressed by speakers of the target language in formal and informal settings, through appropriate responses.
WL.7.1.IH.A.3	Compare and contrast the use of verbal and non - verbal etiquette to perform a variety of functions (such as persuading, negotiating, or offering advice) in the target culture(s) and in one's own culture
WL.7.1.IH.A.4	Analyze historical and political contexts that connect or have connected famous people, places, and events from the target culture(s) with the United States.
WL.7.1.IH.A.5	Synthesize information from oral and written discourse dealing with a variety of topics.
WL.7.1.IH.A.7	Infer the meaning of some unfamiliar words and phrases in new formal and informal contexts.
WL.7.1.IH.A.8	Analyze structures of the target language and comparable linguistic structures in English.
WL.7.1.IH.A.L	Linguistic
WL.7.1.IH.A.L.1	The Intermediate - High language learner has progressed from understanding and communicating at the sentence level to understanding and communicating at the paragraph level and can use connected sentences and paragraphs independently to:
WL.7.1.IH.A.L.1.a	Analyze written and oral text.
WL.7.1.IH.A.L.1.b	Synthesize written and oral text.
WL.7.1.IH.A.L.1.c	Identify most supporting details in written and oral text.
WL.7.1.IH.A.L.1.d	Infer meaning of unfamiliar words in new contexts.
WL.7.1.IH.A.L.1.e	Infer and interpret author's intent.
WL.7.1.IH.A.L.1.f	Identify some cultural perspectives.
WL.7.1.IH.A.L.1.g	Identify the organizing principle in written and oral text.
WL.7.1.IH.B	Interpersonal Mode
WL.7.1.IH.B.1	Use digital tools to participate in extended conversations using a variety of timeframes to exchange information
WL.7.1.IH.B.2	Give, respond to, and ask for clarification on detailed oral and written directions, commands, and requests.
WL.7.1.IH.B.3	Interact in a variety of familiar situations using culturally appropriate verbal and non -

	verbal communication strategies.
WL.7.1.IH.B.4	Ask and respond to questions as part of a group discussion of topics and situations of a personal, academic, or social nature.
WL.7.1.IH.B.5	Engage in oral and/or written discourse in a variety of timeframes on topics of personal or social interest or on topics studied in other content areas.
WL.7.1.IH.B.6	Use language in a variety of settings to further personal and/or academic goals.
WL.7.1.IH.B.L	Linguistic
WL.7.1.IH.B.L.1	The Intermediate - High language learner has progressed from understanding and communicating at the sentence level to understanding and communicating at the paragraph level and can use connected sentences and paragraphs independently to:
WL.7.1.IH.B.L.1.a	Infer meaning of unfamiliar words in new contexts.
WL.7.1.IH.B.L.1.b	Identify some cultural perspectives.
WL.7.1.IH.B.L.1.c	Narrate and describe across a wide - range of topics.
WL.7.1.IH.B.L.1.d	Compare and contrast.
WL.7.1.IH.B.L.1.e	Offer and support opinions.
WL.7.1.IH.B.L.1.f	Persuade someone to change a point of view.
WL.7.1.IH.B.L.1.g	Make and change plans.
WL.7.1.IH.B.L.1.h	Offer advice.
WL.7.1.IH.B.L.1.i	Handle a situation with a complication.
WL.7.1.IH.C	Presentational Mode
WL.7.1.IH.C.1	Explain and compare how a cultural perspective led to the development of a cultural product or cultural practice in the target culture(s) and in one's own culture, through a multimedia - rich presentation to be shared virtually with a target language audience.
WL.7.1.IH.C.2	Create and perform stories, poems, short plays, or oral reports based on personal experiences and/or that reflect cultural perspectives associated with the target culture(s).
WL.7.1.IH.C.3	Use language creatively in writing for a variety of purposes.
WL.7.1.IH.C.4	Explain the structural elements and/or cultural perspectives found in culturally authentic materials.
WL.7.1.IH.C.5	Explain cultural perspectives associated with the target culture(s), as evidenced by the cultural products and cultural practices associated with the target culture(s), and compare these perspectives with those of one's own culture.
WL.7.1.IH.C.6	Explain/demonstrate cross - cultural skills needed for a variety of professions and careers within the global workforce.
WL.7.1.IH.C.L	Linguistic
WL.7.1.IH.C.L.1	The Intermediate - High language learner has progressed from understanding and communicating at the sentence level to understanding and communicating at the paragraph level and can use connected sentences and paragraphs independently to:
WL.7.1.IH.C.L.1.a	Synthesize written and oral text.
WL.7.1.IH.C.L.1.b	Identify some cultural perspectives.
WL.7.1.IH.C.L.1.c	Narrate and describe across a wide - range of topics.
WL.7.1.IH.C.L.1.d	Compare and contrast.
WL.7.1.IH.C.L.1.e	Offer and support opinions.
WL.7.1.IH.C.L.1.f	Persuade someone to change a point of view.
WL.7.1.IH.C.L.1.g	Offer advice.

Integration of Career Readiness, Life Literacies and Key Skills

CRP.K-12.CRP1	Act as a responsible and contributing citizen and employee.
CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP3	Attend to personal health and financial well-being.
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP5	Consider the environmental, social and economic impacts of decisions.
CRP.K-12.CRP6	Demonstrate creativity and innovation.
CRP.K-12.CRP7	Employ valid and reliable research strategies.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP9	Model integrity, ethical leadership and effective management.
CRP.K-12.CRP10	Plan education and career paths aligned to personal goals.
CRP.K-12.CRP11	Use technology to enhance productivity.
CRP.K-12.CRP12	Work productively in teams while using cultural global competence.

Technology / Integration of Computer Science and Design Thinking

TECH.8.1.12	Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.
TECH.8.1.12.C	Communication and Collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.
TECH.8.1.12.C.1	Develop an innovative solution to a real world problem or issue in collaboration with peers and experts, and present ideas for feedback through social media or in an online community.
TECH.8.1.12.E	Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.
TECH.8.1.12.E.1	Produce a position statement about a real world problem by developing a systematic plan of investigation with peers and experts synthesizing information from multiple sources.

Interdisciplinary Connections: NJSL for ELA, Social Studies, Science and/or Math Section

LA.RL.11-12	Reading Literature Key Ideas and Details
LA.RL.11-12.1	Cite strong and thorough textual evidence and make relevant connections to support analysis of what the text says explicitly as well as inferences drawn from the text, including determining where the text leaves matters uncertain.
LA.K-12.NJLSA.R1	Read closely to determine what the text says explicitly and to make logical inferences and relevant connections from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.

LA.RL.11-12.2	Determine two or more themes or central ideas of a text and analyze their development over the course of the text, including how they interact and build on one another to produce a complex account; provide an objective summary of the text.
LA.K-12.NJSLSA.R2	Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas. Integration of Knowledge and Ideas
LA.K-12.NJSLSA.R7	Integrate and evaluate content presented in diverse media and formats, including visually and quantitatively, as well as in words.
LA.RI.11-12	Reading Informational Text
LA.RI.11-12.1	Accurately cite strong and thorough textual evidence, (e.g., via discussion, written response, etc.), to support analysis of what the text says explicitly as well as inferentially, including determining where the text leaves matters uncertain.
LA.K-12.NJSLSA.W	Writing
LA.RI.11-12.2	Determine two or more central ideas of a text, and analyze their development and how they interact to provide a complex analysis; provide an objective summary of the text.
LA.K-12.NJSLSA.W4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
LA.K-12.NJSLSA.W5	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.
LA.RI.11-12.7	Integrate and evaluate multiple sources of information presented in different media or formats (e.g., visually, quantitatively) as well as in words in order to address a question or solve a problem.
LA.K-12.NJSLSA.W9	Draw evidence from literary or informational texts to support analysis, reflection, and research.
LA.K-12.NJSLSA.SL	Speaking and Listening Comprehension and Collaboration
LA.K-12.NJSLSA.SL1	Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively.
LA.K-12.NJSLSA.SL2	Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.
LA.K-12.NJSLSA.SL3	Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric.
LA.K-12.NJSLSA.SL4	Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience.
LA.K-12.NJSLSA.L	Language
LA.K-12.NJSLSA.L2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing. Knowledge of Language
LA.K-12.NJSLSA.L3	Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening. Vocabulary Acquisition and Use
LA.K-12.NJSLSA.L4	Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials, as appropriate.
LA.W.11-12.4	Produce clear and coherent writing in which the development, organization, and style are

appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)

- LA.W.11-12.5 Develop and strengthen writing as needed by planning, revising, editing, rewriting, trying a new approach, or consulting a style manual (such as MLA or APA Style), focusing on addressing what is most significant for a specific purpose and audience.
- LA.K-12.NJSLSA.L6 Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when encountering an unknown term important to comprehension or expression.
- LA.W.11-12.9 Draw evidence from literary or informational texts to support analysis, reflection, and research.
- LA.SL.11-12.1 Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with peers on grades 11–12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.
- LA.SL.11-12.1.A Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well reasoned exchange of ideas.
- LA.SL.11-12.2 Integrate multiple sources of information presented in diverse media or formats (e.g., visually, quantitatively, qualitatively, orally) evaluating the credibility and accuracy of each source.
- LA.SL.11-12.3 Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, assessing the stance, premises, links among ideas, word choice, points of emphasis, and tone used.
- LA.SL.11-12.4 Present information, findings and supporting evidence clearly, concisely, and logically. The content, organization, development, and style are appropriate to task, purpose, and audience.
- LA.L.6.1.C Recognize and correct inappropriate shifts in pronoun number and person.
- LA.L.7.1.C Place phrases and clauses within a sentence, recognizing and correcting misplaced and dangling modifiers.
- LA.L.6.1.D Recognize and correct vague pronouns (i.e., ones with unclear or ambiguous antecedents).
- LA.L.8.1.D Recognize and correct inappropriate shifts in verb voice and mood.
- LA.L.6.1.E Recognize variations from standard English in their own and others' writing and speaking, and identify and use strategies to improve expression in conventional language.
- LA.L.11-12.2.B Spell correctly.
- LA.L.11-12.3 Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.
- LA.L.7.3.A Choose language that expresses ideas precisely and concisely, recognizing and eliminating wordiness and redundancy.
- LA.L.11-12.4 Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grades 11–12 reading and content, choosing flexibly from a range of strategies.
- LA.L.5.1.D Recognize and correct inappropriate shifts in verb tense.
- LA.L.6.3.B Maintain consistency in style and tone.
- LA.L.3.1.F Ensure subject-verb and pronoun-antecedent agreement.
- LA.L.4.1.F Produce complete sentences, recognizing and correcting inappropriate fragments and run-ons.
- LA.L.4.1.G Correctly use frequently confused words (e.g., to, too, two; there, their).
- LA.L.11-12.6 Acquire and use accurately general academic and domain-specific words and phrases,

sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

LA.L.4.3.B

Choose punctuation for effect.

LA.L.3.3.A

Choose words and phrases for effect.

Integration of Diversity, Equity and Inclusion; Climate Change; Informational and Media Literacy

see Crosswalks

21st Century Life and Careers

CAEP.9.2.12.C.3

Identify transferable career skills and design alternate career plans.

CAEP.9.2.12.C.5

Research career opportunities in the United States and abroad that require knowledge of world languages and diverse cultures.

Stage I: Desired Results

Transfer/Overview/Rationale

Transfer / Overview / Rationale

Unit Rationale

The purpose of this unit...

To use technology appropriately and in order to discover and be innovative within the realm of ethical advances

Meaning

Essential Questions

Essential Questions

1.

How do developments in science and technology affect our lives?

2.

What factors have driven innovation and discovery in the fields of science and technology?

3.

What role do ethics play in scientific advancement?

4.

What are the ethical consequences of cloning and stem cell research?

Enduring Understanding/Indicators of Understanding

Enduring Understanding/Indicators of Understanding

The ability to persuade and use facts and evidence from cited sources to argue their point of view towards development of technology

Identifying the role of technology in marketing and image creation as well as identifying false news and how to authenticate it

Skills to make a moral decision or one that advances science based on facts and information

Acquisition (Student Learning Objectives)

Knowledge

Knowledge

Students will know...

- comparisons

future tense

conditional tense

imperfect subjunctive

Skills

Skills

Student will be skilled at ...

- Identify technological advances in our lives
- Interpret news reading and listening to current events inline with AP curriculum (Using current sources create by Spanish speakers for Spanish speakers)
- Use the future tense and the conditional tense
- Compare and contrast immigration issues in North America and Europe

Stage 3: Learning Plan

Resource and Mentor Texts

Resources and Mentor Texts

Unidad 3 Ap guide

Triangulo Aprobado-chapter 5

mottaspanish.weebly.com

Temas AP Language and culture Text,Work book, Short films and Audio- Chapter 7

Spanish Three Years Work book

Spanishlistening.org

newsela

zambombazo

slow news in spanish

<https://www.laits.utexas.edu/spe/>

<http://www.bowdoin.edu/hispanic-studies/tools/newgr/ats/>

Movies El Violin

TEMA Chapter 6

Triangulo aprobado Chapter 6

Spanish Three Years Work book

google voice

flip grid

Formative Assessment Strategies

Formative Assessment Strategies

create a new product or app

live for a day without technology and write about it

create a new technological advance and write about the pros and cons

Learning Activities/Unit of Study

Learning Activities/Unit of Study

- Interpret Reading the car of the future
- Vocabulary quizzes
- Writing – Imagine a world without your mobile
- AP practice tests – broken into sections
- Listening activities
- Grammar tests

Modifications and/or Accommodations

Suggested Modifications (ELL, Sp. Ed, Gifted, At-risk of Failure)

English Language Learners

Native language support: The teacher provides auditory or written content to students in their native language.

Adjusted Speech: The teacher changes speech patterns to increase student comprehension. This could include facing the students, paraphrasing, clearly indicating the most important ideas, and speaking more slowly.

Visuals: The teacher uses graphics, pictures, visuals, and manipulatives. This helps ELL students better understand and comprehend the subjects at hand.

Front-Loading Vocabulary: The teacher front loads vocabulary. This means providing students with a list of important vocabulary words they will need to know for a book, lesson, etc. prior to the lesson being taught. Including pictures to go with the vocabulary words is also very beneficial for the students.

Special Education Students

Chunking: The teacher presents information in a way that makes it easy for students to understand and remember. Chunking is based on the presumption that our working memory is easily overloaded by excessive detail. The best way to deliver information is to organize it into meaningful units. Because students with special needs get overloaded easily, chunking is an effective strategy to use with them.

Checking for Understanding: It is important to constantly check for understanding, especially for students who have accommodations. Teachers want to make sure students understand the concepts being covered in a way that makes sense to them.

Extra time: The teacher provides students with special needs extra time to complete work or answer questions. It is important to give students enough time to process their thoughts.

Oral Reading: The teacher will read work orally to students. Class work such as tests and literature circles may need to be read aloud to the student.

Timers: The teacher will use timers as an instructional tool. The use of timers is beneficial for students who have trouble completing tasks. Timers can be helpful so the student is aware of how much time they have to complete an assignment.

Students with 504 Plans

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Gifted & Talented Strategies

Extensions/Enrichments: Teachers will provide gifted and talented students with extension/enrichment projects. Students will be challenged to further their understanding, to apply acquired knowledge, and/or to produce something in reference to acquired knowledge.

Modify/Change Activities: Teachers will monitor and modify activities to accommodate those students who need to be challenged further. Additional reading, problem-solving, writing, or project work is necessary for those students who are ready to move on at a rate more accelerated than their peers. In this way, G & T students are provided the same opportunity for support as special needs students.

Students at Risk of School Failure

Directions or Instructions: Make sure directions and/or instructions are given in limited numbers. Give directions/instructions verbally and in simple written format. Ask students to repeat the instructions or directions to ensure understanding occurs. Check back with the student to ensure he/she hasn't forgotten.

Peer Support: Peers can help build confidence in other students by assisting in peer learning. Many teachers use the 'ask 3 before me' approach. This is fine, however, a student at risk may have to have a specific student or two to ask. Set this up for the student so he/she knows who to ask for clarification before going to you.

Alternate or Modified Assignments: Always ask yourself, "How can I modify this assignment to ensure the students at risk are able to complete it?" Sometimes you'll simplify the task, reduce the length of the assignment or allow for a different mode of delivery. For instance, many students may hand something in, the at-risk student may jot notes and give you the information verbally. Or, it just may be that you will need to assign an alternate assignment.

Increase One to One Time: When other students are working, always touch base with your students at risk and find out if they're on track or needing some additional support. A few minutes here and there will go a long way to intervene as the need presents itself.

Contracts: It helps to have a working contract between you and your students at risk. This helps

prioritize the tasks that need to be done and ensure completion happens. Each day write down what needs to be completed, as the tasks are done, provide a checkmark or happy face. The goal of using contracts is to eventually have the student come to you for completion sign-offs.

Hands On: As much as possible, think in concrete terms and provide hands-on tasks. This means a child doing math may require a calculator or counters. The child may need to tape record comprehension activities instead of writing them. A child may have to listen to a story being read instead of reading it him/herself.

Tests/Assessments: Tests can be done orally if need be. Break tests down in smaller increments by having a portion of the test in the morning, another portion after lunch and the final part the next day.

Seating: Seat students near a helping peer or with quick access to the teacher. Those with hearing or sight issues need to be close to the instruction which often means near the front.