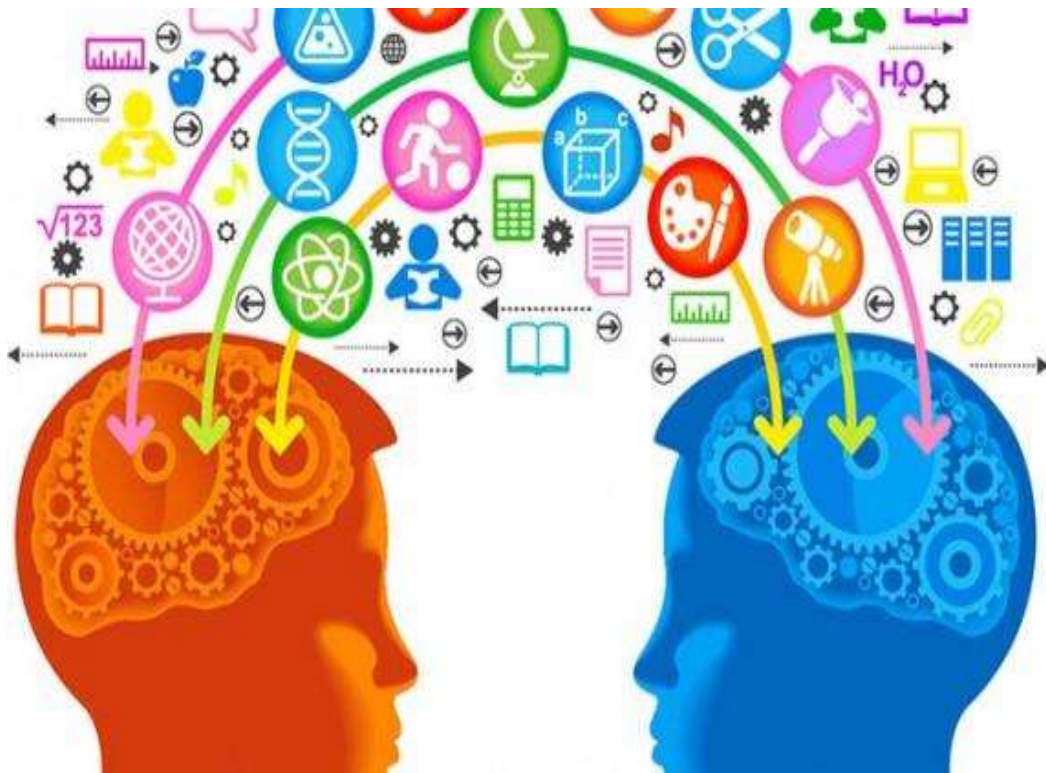


OBJETIVOS DE APRENDIZAJE SEGUNDO TRIMESTRE SÉPTIMO GRADO 2025- 2026



Respetados padres de familia:

A continuación, encontrarán los objetivos de aprendizaje que sus hijos van a abordar en el segundo trimestre. Estos comunican al estudiante que **debe saber, entender y ser capaz de hacer**, en cada una de las asignaturas.





MATHEMATICS

NUMERACY VARIATION & PROBLEM SOLVING:

Understand how to manipulate algebraic expressions including:

- applying the distributive law with a single term (squares and cubes)
- identifying the highest common factor to factorise.

Understand term-to-term rules, and generate sequences from numerical and spatial patterns (including fractions).

Understand and describe n th term rules algebraically (in the form $n \pm a$, $a \times n$, or $an \pm b$, where a and b are positive or negative integers or fractions).

Understand that a function is a relationship where each input has a single output. Generate outputs from a given function and identify inputs from a given output by considering inverse operations (including fractions).

Understand factors, multiples, prime factors, highest common factors and lowest common multiples.

Understand the hierarchy of natural numbers, integers and rational numbers.

Use positive and zero indices, and the index laws for multiplication and division.

Understand that a situation can be represented either in words or as a linear function in two variables (of the form $y = mx + c$), and move between the two representations.

GEOMETRY, MEASUREMENT & PROBLEM SOLVING:

Use knowledge of rectangles, squares and triangles to derive the formulae for the area of parallelograms and trapezia. Use the formulae to calculate the area of parallelograms and trapezia.

Use knowledge of area and volume to derive the formula for the volume of a triangular prism. Use the formula to calculate the volume of triangular prisms.

Represent front, side and top view of 3D shapes to scale.

Use knowledge of area, and properties of cubes, cuboids, triangular prisms and pyramids to calculate their surface area.

Understand that the number of sides of a regular polygon is equal to the number of lines of symmetry and the order of rotation.



STATISTICS, PROBABILITY & PROBLEM SOLVING:

Understand that complementary events are two events that have a total probability of 1.

Understand that tables, diagrams and lists can be used to identify all mutually exclusive outcomes of combined events (independent events only).

Record, organise and represent categorical, discrete and continuous data. Choose and explain which representation to use in a given situation:

- Venn and Carroll diagrams
- tally charts, frequency tables and two-way tables
- dual and compound bar charts
- pie charts
- frequency diagrams for continuous data
- line graphs and time series graphs
- scatter graphs
- stem-and-leaf diagrams
- Infographics.

Understand how to find the theoretical probabilities of equally likely combined events.

ENGLISH FOR A GLOBAL WORLD

READING

Read and understand a growing range of short and extended fiction and non-fiction texts with increasing confidence, enjoyment, and independence.

Use a range of prepositions accurately to express ideas, describe relationships, and respond to texts in spoken and written English.

WRITING

Confidently generate, plan, and produce extended texts across a range of genres, using appropriate style, and layout with increasing independence.

Use a broadening range of grammatical structures to communicate ideas, ask questions, and extend understanding in written English.

LISTENING AND SPEAKING

Identify the main ideas, specific details, and arguments in short and extended spoken texts, recognizing speaker opinions and implied meaning with growing confidence.



Communicate ideas, opinions, and narratives with clarity, coherence, and appropriate pronunciation, using a range of grammatical structures and connectives.

INQUIRY AND METACOGNITION

Formulate relevant research questions and investigate local and global issues using a range of print and multimedia sources, selecting appropriate methods to gather, organize and interpret information.

Work collaboratively to analyse causes and consequences of real-world issues, suggest and justify actions for positive change, and reflect on their learning process.

LENGUA CASTELLANA

LITERATURA

- Definir los subgéneros de la ciencia ficción, reconociendo sus principales elementos y temas.
- Analizar un texto o un fragmento de ciencia ficción para clasificarlo en uno de sus subgéneros y explicar por qué.
- Identificar los elementos del género lírico, como el yo poético, la rima y la métrica, en diferentes poemas.
- Reconocer figuras literarias como la aliteración, la anáfora y el hipérbaton en textos poéticos.
- Analizar la estructura y los elementos que distinguen a la biografía como género narrativo

PRODUCCIÓN TEXTUAL

- Componer un poema original que utilice figuras literarias como la aliteración, la anáfora o el hipérbaton para generar un efecto estético.
- Redactar un haiku que capture un momento o una imagen, aplicando la estructura de 5-7-5 sílabas.
- Redactar oraciones utilizando conjugaciones perifrásticas para dar matices de tiempo y acción a la narrativa.
- Redactar definiciones claras y precisas de términos específicos, utilizando un vocabulario técnico adecuado, una ejemplificación y una estructura coherente para garantizar la comprensión del lector.



COMPRENSIÓN E INTERPRETACIÓN TEXTUAL:

- Interpretar el mensaje global de un poema, analizando cómo el yo poético y las figuras literarias (anáfora, hipérbaton) contribuyen a su significado.
- Analizar cómo la biografía construye la imagen de un personaje histórico, evaluando la objetividad y las fuentes utilizadas.
- Interpretar el significado de los signos de puntuación, los emoticonos y otros signos no alfabetizables en un texto, explicando cómo enriquecen el mensaje

COMUNICACIÓN

- Analizar la comunicación no verbal y verbal de un personaje en una obra de teatro, evaluando cómo transmite su personalidad y sus intenciones.
- Representar un fragmento de una obra, aplicando el lenguaje corporal y la entonación para comunicar las emociones del personaje.
- Comparar las diferentes herramientas tecnológicas para determinar cuál es la más adecuada para un propósito comunicativo específico.
- Decodificar mensajes cifrados sencillos (códigos de sustitución, jeroglíficos) para comprender su contenido.

SOCIAL STUDIES.

PENSAMIENTO SOCIAL

Identificar las principales características de los fenómenos sociales, económicos, políticos, culturales y geográficos durante el periodo de la Edad Moderna en Europa.

Reconocer las formas en las que la sociedad de la Edad Moderna en Europa se relacionó con el espacio geográfico habitado con base en su uso y transformación.

Identificar las principales ideas de los sistemas políticos y económicos de la Edad Moderna en Europa, resaltando sus características y problemáticas.



PENSAMIENTO SISTÉMICO

Reconocer las estructuras sociales y culturales que surgieron en la Edad Moderna y las problemáticas propias de su desarrollo.

Analizar las problemáticas sociales durante la Edad Moderna en Europa en relación con la producción, transformación y distribución de bienes, recursos y servicios en su espacio geográfico.

Comprender las problemáticas sociales que surgen durante la Edad Moderna en Europa con relación a las ideas que sostienen los principales sistemas políticos de la época.

MULTIPERSPECTIVISMO

Analizar los legados culturales presentes en la Edad Moderna en Europa desde la perspectiva de algunos de sus actores sociales principales mediante la consulta de fuentes primarias y secundarias.

Analizar los argumentos de diferentes actores sociales durante la Edad Moderna en Europa frente al uso de su espacio geográfico y a partir del análisis de fuentes primarias y secundarias.

Reconocer las ideas propias de los sistemas políticos en la Edad Moderna en Europa desde las perspectivas de diferentes actores sociales y a partir del uso de fuentes primarias y secundarias.

INVESTIGACIÓN SOCIAL

Organizar la información consultada sobre el problema contemporáneo relacionado con el ODS número 7: energía asequible y no contaminante, mediante el uso de herramientas de clasificación, discriminación y síntesis de la misma, en diálogo con algunos conceptos abordados en clase.



NATURAL SCIENCES

SCIENTIFIC ENQUIRY

Describe the strengths and limitations of a model.

Use symbols and formulae to represent scientific ideas.

Make predictions of likely outcomes for a scientific enquiry based on scientific knowledge and understanding.

Collect and record sufficient observations and/or measurements in an appropriate form.

Discuss how scientific knowledge is developed through collective understanding and scrutiny over time.

Describe how science is applied across societies and industries, and in research. Evaluate issues which involve and/or require scientific understanding.

BIOLOGICAL PROCESSES

Identify the constituents of a balanced diet for humans as including protein, carbohydrates, fats and oils, water, minerals (limited to calcium and iron) and vitamins (limited to A, C and D), and describe the functions of these nutrients.

Understand that carbohydrates and fats can be used as a store of energy in animals, and animals consume food to obtain energy and nutrients.

Discuss how human growth, development and health can be affected by lifestyle, including diet and smoking.

Know that aerobic respiration occurs in the mitochondria of plant and animal cells, and gives a controlled release of energy.

Know and use the summary word equation for aerobic respiration (glucose + oxygen \rightarrow carbon dioxide + water). Identify different ecosystems on the Earth, recognising the variety of habitats that exist within an ecosystem.

Describe the impact of toxic substances on an ecosystem.

Describe how a new and/or invasive species can affect other organisms and an ecosystem.



PHYSICO-CHEMICAL PROCESSES

Understand that the concentration of a solution relates to how many particles of the solute are present in a volume of the solvent.

Describe how paper chromatography can be used to separate and identify substances in a sample.

Use word equations to describe reactions.

Know that some processes and reactions are endothermic or exothermic, and this can be identified by temperature change.

Describe the reactivity of metals (limited to sodium, potassium, calcium, magnesium, zinc, iron, copper, gold and silver) with oxygen, water and dilute acids.

Know that reactions do not always lead to a single pure product and that sometimes a reaction will produce an impure mixture of products.

Describe how the solubility of different salts varies with temperature.

Understand that some substances are generally unreactive and can be described as inert.

TECHNOLOGY

UNDERSTANDING OF THE WORLD:

- Analyse how ergonomics and anthropometry shape wearable and portable objects for diverse users and contexts, relating form and materials to cultural, historical, and environmental factors.
- Evaluate the social, cultural, and environmental impacts of fast fashion, proposing responsible design and consumption strategies.

ICT TOOLS AND CODING:

- Collect, organize, and analyze survey data on clothing/consumption with basic spreadsheet functions; represent trends in tables and charts to inform design decisions.
- Create clear, ethical digital presentations that communicate research findings and design concepts (accuracy, sources, privacy/consent).



DESIGN AND CREATIVITY DEVELOPING THINKING SKILLS:

- Design and prototype a wearable or body-related object for a defined user, applying ergonomic criteria and experimenting with materials and construction to balance function, comfort, and aesthetics.

EDUCACIÓN FÍSICA

DESARROLLO FÍSICO MOTRIZ Y UBICACIÓN TEMPORO-ESPACIAL.

Aplica pruebas para valorar sus capacidades condicionales.

Ejecuta actividades de coordinación dinámica general, utilizando los diferentes segmentos corporales.

Realiza acciones motrices propias de los deportes en conjunto. (casas)

Desarrolla y aplica correctamente los fundamentos técnicos básicos de cada deporte en situación de juego. (sports)

FORMACIÓN Y REALIZACIÓN DE LA TÉCNICA

Implementa específicamente velocidad, resistencia, fuerza y flexibilidad
Ejecuta movimientos propios de acuerdo a su control corporal.

Aplica fundamentos técnicos en actividades lúdico deportivas colectivas. (casas)
Regula ejercicios propios de deportes específicos. (sports)

FUNDAMENTACIÓN TEÓRICA DISCIPLINAR.

Identifica y utiliza las diferentes habilidades físicas, para adaptar posiciones.

Analiza cómo lograr de manera eficiente la coordinación del movimiento exigido.
Participa activamente de las actividades lúdicas, intercasas o deportivas demostrando sana competencia y gran espíritu deportivo (casas).

Identifica y utiliza las diferentes habilidades y destrezas físicas, implementándolas en las actividades lúdico – deportivas, con el fin de generar espacios de autocontrol y auto exigencia. (sports)



EDUCACIÓN SOCIOEMOCIONAL

INTELIGENCIA EMOCIONAL

Reflexiona sobre cómo las emociones influyen en el comportamiento y las decisiones.

Desarrolla estrategias para gestionar su salud mental y construir hábitos saludables.

Trabaja en la expresión de los límites personales frente a los riesgos del Siglo XXI (spa, sexualidad y relaciones interpersonales).

Fortalece sus habilidades de afrontamiento y resiliencia frente a la comprensión de las acciones y emociones propias y ajenas.



MUSIC (CHOIR)

APPRECIATION

Respond to basic conducting gestures.

Follow the music dynamics according to the objective.

SKILLS

Perform listening activities such as responding to pitch, rhythm, diction, voice types, dynamics, and interpretation.

Use active listening to contribute to the ensemble's tone colour and dynamic contrast.

EXPRESSION

Apply concepts of tone production to appropriate repertoire in small and larger ensembles, unison and two-part.

Demonstrate ensemble skills by blending, balancing, and adjusting vocal tone to match the group in unison and two-part singing.

MUSIC (INSTRUMENTAL)

APPRECIATION

Reconoce y valora manifestaciones artísticas de su entorno.

Identifica elementos básicos del lenguaje visual y sonoro.

ART SKILLS

Desarrolla coordinación y control técnico en el uso de materiales o instrumentos.

Combina técnicas simples con creatividad.

EXPRESSION

Manifiesta emociones e ideas a través del arte.

Participa con disposición en actividades grupales.



THEATER

APPRECIATION

Reflect on personal strengths and areas for improvement in theatrical practice.

Recognize the role of design elements in enhancing a dramatic production.

SKILLS

Explore physical and vocal limitations and value error as a creative resource.

Engage with dramatic texts through reading and writing exercises

EXPRESSION

Differentiate between physical activity and purposeful action on stage.

Interpret character objectives through performance.

Explore emotional and physical expression to overcome communication obstacles.
Practice acting techniques focused on character creation and emotional authenticity.



DANCING

APPRECIATION

Apply basic dance theory concepts to analyze and evaluate the composition and meaning of a choreography.

Develop the ability to express oneself critically about the art of dance and respect others' opinions and perspectives.

Appreciate and value own artistic work and that of others.

SKILLS

Integrate the use of space, rhythm, and musicality in the execution of simple choreographies.

Explore and experiment with improvisation and the creation of original movements within the context of dance.

Participate in more elaborate choreographic creation projects and present them in public.

EXPRESSION

Explore and apply different styles and themes in the creation of group and individual choreographies.

Develop the ability to work collaboratively with classmates to create joint choreographies and performances.

Reflect on the creative and artistic process and use feedback to improve and enrich interpretations and choreographies.

ARTS

APPRECIATION

Actively participates in artistic experiences, giving value to own and shared ideas that strengthen individual and collective development.

Understands and applies methods of visual appreciation in the description and meaning of some visual art referents between art and society.

Recognizes contemporary Colombian artists, their work and influences.



Understands the three different forms of artistic research (research about arts, research for arts or research within the arts) and carries out an artistic investigation project.

Is able to identify different ways in which art has been understood throughout history.

ART SKILLS

Uses Consolidates a specific technique to develop advanced skills in plastic arts according to significant, pleasure and emotional statements.

Consolidates and applies artistic techniques of plastic and visual arts in painting and sculpture.

Applies a specific technique learned along the year in an original and functional group creation focused on the scenography of the cultural show.

EXPRESSION

Explores arts as a way of problematizing their personal and social context.

Consolidates and develops visual thinking skills that allow a critical lecture of themselves and their environment through art.