

**FORTY-FOURTH ANNUAL
INVITATIONAL SCHOLASTIC CONTEST**



**Wednesday
FEBRUARY 26, 2020**

**Tishomingo, Oklahoma
www.msok.edu**

MURRAY

STATE COLLEGE

INVITATIONAL SCHOLASTIC CONTEST

SCHEDULE OF EVENTS

Wednesday

February 26, 2020

8:15 AM to 9:15 AM

Registration – Sponsors Only
(Campus Center – CC 107)

Note: Only one sponsor from each school needs to register; however, that sponsor is asked to indicate how many sponsors from his/her school will attend for hospitality purposes.

9:30 AM to 12:30 PM

Tests
(see Test Schedule)

9:00 AM to 1:00 PM

Sponsor's Hospitality Room
(Aggie Dining Room in the Student Center)

Note: Sponsors and bus drivers are our guests for lunch in the Aggie Dining Room.

As Soon As Results Are Final

Contest Results
(Ballroom and CR 201)

Unofficial test results will be posted as quickly as possible throughout the day on the first floor of the Classroom Building. Your patience is requested.

Results **are not** available by phone.

PARKING INSTRUCTIONS

Please use the Fletcher Auditorium for drop off and pick up.

BUS PARKING.... FOLLOW THE SIGNS:

Bus parking is located at the Johnston County Sports Complex parking lot... south of the main campus area on Byrd Street. Transportation to and from campus will be provided to bus drivers and counselors.

GENERAL RULES

Eligibility

1. The contestant shall be a bona fide student at the school represented and shall have achieved passing grades during the previous semester enrolled.
2. The contestant shall have enrolled in the school represented within two weeks after the beginning of the semester.
3. The contestant shall be enrolled in grade nine, ten, eleven or twelve, shall **not** compete for more than four years after enrolling as a freshman.
4. The contestant shall **not** have reached his/her twentieth birthday.
5. Except for the Art Drawing and Art Portfolio tests, the contestant shall **not** have participated previously in a particular test category (i.e., if a student has competed in the accounting test before, the student **cannot** enter the accounting test again). Students participating in the Art Drawing and/or Art Portfolio tests may enter in consecutive years; however, portfolio entries may never be used more than once.
6. If eligibility is contested, the Vice President of Academic Affairs of Murray State College will make the final determination.

Entry

1. All entries must be received by the Academic Affairs Office on or before **Wednesday, February 12, 2020 by 5:00 PM.**
2. All entries should be made by submitting the entry spreadsheet via the form that will be emailed to you. If for some reason you have issues with submitting the form email or call Ginger Cothran at 580-387-7112 or academicaffairs@mscok.edu.
3. No individual shall enter more than one test category at any one testing time-period. (i.e., Students participating in Art Portfolio cannot enter another test category during that time slot.)
4. **Each school will be limited to one contestant per test.**
5. There is **no** entry fee.

Substitutions

Once the entry form is submitted, additions and substitutions to the entry **must be minimal**. Changes can be submitted through the online entry submission form until **Wednesday, February 12, 2019 by 5:00 PM**. After that date, **only substitutions are allowed by email to academicaffairs@mscok.edu or at the registration. NO SUBSTITUTIONS WILL BE ALLOWED AFTER THE REGISTRATION ENDS AT 8:50 THE MORNING OF THE CONTEST.**

Awards

Schools will be divided into divisions based on the Academic Classifications published by the Oklahoma Secondary School Activities Association. Division I will include schools with the academic classifications of 6A, 5A, and 4A. Division II is 3A, Division III is 2A and Division IV is A or below. (Because of time restriction and space utilization, students from all school divisions will be tested together in most test categories.)

Medals

For each test category, students who place first, second, and third in each division will receive a medal. Medals will be mailed to their high school to the attention of the sponsor.

Results Posting

Result posting will be located in the Classroom Building and will consist of points (see point system below) awarded the schools ranking 1 through 10 in each test category (by division). Individual student results with scores for your school will be provided upon request by contacting Ginger Cothran via email at academicaffairs@mscok.edu. Final results with no individual scores will be posted to the Murray State College Website (www.mscok.edu) no later than Friday, February 28th . **Results will not be made available by phone.**

Trophies

A division plaque will be awarded to the school that accumulates the highest number of points in its particular division. Division plaques will be mailed to the winning high schools to the attention of the sponsor.

Point System

The following point system has been established so MSC officials can quickly identify the divisional plaque winners:

POINT SYSTEM				
PLACE				
1	2	3	4	5
POINTS				
5	4	3	2	1

Presentation of Awards

Medals and plaques will be mailed out to school counselors by February 28th.

Scholarships

The *senior who ranks highest overall* in each test category – **all divisions combined** – is offered a scholarship to Murray State College for the 2020-2021 academic year. There is a limit of one scholarship per student.

The scholarship pays a tuition waiver of **6 hours times the current tuition rate** per semester for one year, but students may re-apply the following year. Scholarships apply **only** to the immediately following academic year. Contact the Murray State College Financial Aid Department for more information at (580) 387-7220.

FOR YOUR INFORMATION



Degree Programs Available

Agriculture

- Agriculture Education
- Agriculture Communications
- Agronomy
- Animal Science
- Biochemistry and Molecular Biology
- Environmental Science
- Leadership

Arts & Sciences (General Studies)

Behavioral Science

- Psychology Option
- Sociology Option

Business

- Hospitality Management

Business Management

- Administrative Accounting
- Business Management Option
- Medical Office Assistant Option

Chemistry

Child Development

Computer Science

Computer Information Systems

Communication and Performance Studies

- Communication
- Musical Theatre
- Theatre
- Art

Conservation and Wildlife Management

Criminal Justice

Custom Gunmaking

Elementary Education

English/Language Arts

Enterprise Development (Reach Higher)

- Business Administration
- General Studies

Gunsmithing Technology

Health – Wellness and Human Performance

History

International Studies

- Agriculture Option
- Business Option
- Conservation Option

Mathematics

Nursing

Occupational Therapy Assistant

Physical Therapist Assistant

Pre-Professional

- Pre-Pharmacy Option
- Pre-Veterinary Medicine Option

Science

Veterinary Technology

TEST CATEGORIES

(Alphabetical Listing)

Important Information:

- Some individual test categories have “other eligibility requirements” listed in addition to the eligibility requirements listed previously under General Rules. Please note and adhere to all eligibility requirements.
- The contestant cannot have participated previously in a particular test category except for the Art Drawing and Art Portfolio categories. Students participating in Art Drawing and/or Art Portfolio may enter in consecutive years. Portfolio entries may only be used once. (See General Rule/Eligibility #5)
- Students are expected to arrive on time for their test. Failure to do so may result in a student being barred from the testing room. Tests are scheduled in fifty (50) minute time slots leaving ample time for students to arrive at their next testing site.

ACCOUNTING – 10:30-11:15 AM

Instructor: Kathy Bowen

Other Eligibility Requirement: First- and second-year accounting students may enter.

Description of Test: The test will include the following: journalizing, special journals, posting, income statements, balance sheets, adjusting and closing entries, notes and interest problems, depreciation (Straight Line, Declining Balance), and inventory (FIFO, LIFO, weighted average). Test questions will be multiple choice. **Calculator is required.**

AGRICULTURE BUSINESS – 10:30-11:15 AM

Instructor: Brian Cothran

Description of Test: This exam is designed to test understanding of the application of economic principles in farm and ranch operations. The test will consist of approximately 40 multiple choice questions and calculators are not necessary, but will be allowed. Areas covered on test are: farm budget, balance sheet, supply and demand curves, interest rates, tax management, opportunity cost, fix and variable cost, marketing, use and understanding of the Futures Market.

ALGEBRA I – 11:30-12:15 PM

Instructor: Christy Uzzel

Other Eligibility Requirement: Only 9th through 12th grade students who are not currently enrolled in or who have not completed a math course of a higher level than Algebra I may enter.

Description of Test: The test will be a written objective test. Concepts covered include real numbers, algebraic expressions, linear equations, linear inequalities, graphing, exponents, polynomials, and factoring. Calculators are not allowed. A #2 lead pencil is needed.

ALGEBRA II – 9:30-10:15 AM

Instructor: Brandon Bettes

Other Eligibility Requirement: Only students who are presently enrolled in a second-year algebra course may enter.

Description of Test: The test will be a written objective test covering fundamental operations, factoring, fractions, roots of quadratics, binomial theorem, progressions, system of second order equations and problems of applications. Calculators are not allowed.

AMERICAN GOVERNMENT – 9:30-10:15 AM

Instructor: Kirk Rodden

Description of Test: The test will consist of a series of objective questions with essay tie breakers. Areas will include: The *Constitution* and its origins, the three branches of the Federal Government, the bureaucracy, federalism, civil rights and civil liberties, political parties and interest groups, media and public opinion, and voting and the electoral process.

AMERICAN HISTORY – 9:30-10:15 AM

Instructor: Becky Jacobs-Pollez

Description of Test: The test will consist of a series of objective questions with essay tie breakers. Areas will include all aspects of American history from earliest times until the present. Topics will include: pre-historic peoples, the age of discovery, English colonization and settlement, the revolutionary era, westward expansion and transportation, age of Jackson, sectionalism and Imperialism, the Progressive reform era, World War I and the inter-war years, the depression and World War II, and the post-World War II era.

AMERICAN LITERATURE – 9:30-10:15 AM

Instructor: Ashley Fly

Description of Test: The test will be based on state-approved textbooks and will cover the established literary periods from the colonial era to the present. The questions will cover characteristics of literary periods and writers and their works.

ANATOMY AND PHYSIOLOGY (Human) – 9:30-10:15 AM

Instructor: Don Loving

Other Eligibility Requirement: Only students who are currently enrolled in or who have previously taken an anatomy and physiology course may enter.

Description of Test: This exam will consist of approximately 100-150 multiple choice questions at different levels of complexity. Some photographic identification may be required. Different areas covered by the test include: organization of the body, chemistry of life; organization of the cell; organization of tissues, and the anatomy and physiology of the body systems.

ART DRAWING – 11:30-12:15 PM

Instructor: Alan Burris

***Students may enter consecutive years.**

Description of Test: The test will be a performance test to determine ability in still life and/or figurative drawing using Black Number 6 pencil on white paper. MSC art department will furnish all the material. **Please do not bring any art materials.**

ART PORTFOLIO – 9:30-10:15 AM

Instructor: Alan Burris

***Students may enter consecutive years.**

Other Eligibility Requirement: Portfolio entries may never be used more than once.

Description of Test: Contestants should prepare a portfolio of **not more than eight nor less than four** original works. All work should be matted and prepared for hanging with wire or heavy nylon line. **DO NOT** use masking tape. **Note: Artwork must be secure for hanging or it will not be accepted. No Exceptions!!** Frames are not necessary. All work should be suitable for public display (if questioned, an MSC official will make the final decision). Portfolios should exhibit developed skills in multiple media and originality of subject matter. At least **three** of the following categories must be represented in each portfolio entered for competition:

- | | | | |
|----|---------------------------------|----|----------------------------|
| a. | pencil or charcoal drawing | e. | opaque watercolor painting |
| b. | pen and ink drawing | f. | oil painting |
| c. | pastel drawing | g. | ceramics |
| d. | transparent watercolor painting | h. | sculpture (any media) |

BEHAVIORAL SCIENCE – 11:30-12:15 PM

Instructor: Derek Dodson

Description of Test: A multiple-choice test covering: basic sociological theory, the study of culture and socialization, social stratification and inequality, deviance, the family and population issues, biological foundations of behavior; learning, perception, consciousness, and personality. Also the test will include questions about abnormal and basic psychological theory. Short-answer questions will be used for tie breakers.

BUSINESS MATH – 11:30-12:15 PM

Instructor: Mickey Jack

Description of Test: The test will include such topics as: common and decimal fractions, percentages, trade, cash and bank discounts, simple and compound interest, markup, commissions, and payrolls. Calculators are required and will **not** be provided.

CALCULUS – 9:30-10:15 AM

Instructor: John Whitehead

Other Eligibility Requirement: Only students who are not currently enrolled in or who have not completed a math course of a level higher than calculus may enter.

Description of Test: The test will cover differentiation and integration of basic and transcendental functions in one variable. Students taking the test will need to have a basic graphing calculator like a TI-84. Calculators such as a TI-89 or TI-92 or equivalent models from other makers will not be allowed.

CHEMISTRY – 10:30-11:15 AM

Instructor: Lisa Atwood

Description of Test: Students who have completed or are currently enrolled in a comprehensive high school chemistry course may take the test. All of the major areas of general inorganic chemistry are covered. This includes atomic structure, periodic table, chemical and physical properties, equation balancing, stoichiometric calculations, percentage, acid-base chemistry, oxidation numbers, oxidation and reduction chemistry, electronic structure of atoms, quantum numbers, solutions and molarity problems and chemical nomenclature of binary and ternary inorganic compounds including acids, bases, and salts. The test will have 75 multiple-choice questions. Periodic table is provided. Calculator is essential, but is **not** provided.

CHILD DEVELOPMENT – 9:30-10:15 AM

Instructor: Amy McCain

Description of Test: The test is recommended for students who have completed or are currently enrolled in family and consumer science classes. The objective test will cover the care and development of children from infancy to preschool.

COMPUTER FUNDAMENTALS – 11:30-12:15 PM

Instructor: Eddie Cobb

Other Eligibility Requirement: Only students who have completed or who are currently enrolled in an introductory computer course may enter.

Description of Test: The test will be a written objective test covering computer fundamentals including: terminology, principles, operations, applications, software, hardware, programming, and the role of computers in society (past, present and future).

CURRENT EVENTS – 11:30-12:15 PM

Instructor: Lindsay Brantley

Description of Test: This objective test will include questions about state, national and international events from recent years. The greatest emphasis will be on “headline” political news occurring within the past year. To prepare for this exam, a student should be aware of major news events as reported by the media. Many questions will be selected from “World” and “Nation” sections of *Time* magazine. There will also be some questions of a general nature about American life and culture.

ENGLISH LITERATURE – 10:30-11:15 AM

Instructor: Rebecca Davis

Description of Test: The English literature test will be based on state approved textbooks and will cover the established literary periods from Beowulf to the present. It will include questions over characteristics of literary periods, major writers and their works, and the terminology of literary study.

EXPOSITORY WRITING (Div. I & II) – 9:30-10:15 AM

Instructor: Kristy Weiberg

Description of Test: Students will write a complete essay in 30 minutes on a subject of general concern given at the beginning of the test. Evaluation will focus on: critical thinking, generating and organizing ideas as well as presenting ideas, proper documentation (if any), thesis and paragraph development, revision, grammar, syntax and editing. The ultimate goal will be the production of clean, clear, concise prose.

EXPOSITORY WRITING (Div. III & IV) – 9:30-10:15 AM

Instructor: Charlotte Estep

Description of Test: Students will write a complete essay in 30 minutes on a subject of general concern, given at the beginning of the test. Evaluation will focus on: critical thinking, generating and organizing ideas as well as presenting ideas, proper documentation (if any), thesis and paragraph development, revision, grammar, syntax and editing. The ultimate goal will be the production of clean, clear, concise prose.

GENERAL BIOLOGY – 11:30-12:15 PM

Instructor: Dan Moore

Other Eligibility Requirement: Only students who are currently enrolled in or who have previously taken a biological science course may enter.

Description of Test: The test questions will reflect national standards for general biological knowledge expected of high school students. Topics covered include such biological concepts as: cell structure and function, DNA structure and function, energy flow, basic genetics, plant form and function, lower animal form and function, human anatomy and physiology, basic ecological concepts, and evolutionary theory.

GENERAL SCIENCE – 9:30-10:15 AM

Instructor: Dan Moore

Other Eligibility Requirement: Only students who are currently enrolled in a first-year general science, physical science or earth science course may enter.

Description of Test: The test will consist of approximately 75 multiple-choice questions. Topics will cover: the metric system, work/energy, motion, matter, chemistry, space, electricity, electromagnetic waves, sound, nuclear science, geology, soil, the atmosphere, environmental science (air and water pollution), the cell, basic metabolism, and classification.

GEOMETRY— 10:30-11:15 AM

Instructor: Christy Uzzel

Other Eligibility Requirement: Only students who are presently enrolled in a high school level geometry course may enter.

Description of Test: The test will reflect state standards for knowledge and understanding of geometric concepts expected of high school students. Topics covered will include logical reasoning, properties of 2-dimensional figures, triangles and trigonometric ratios, properties or 3-dimensional figures, and coordinate geometry. Calculators are permitted.

LIBRARY SKILLS – 9:30-10:15 AM

Instructor: Craig Finlay

Description of Test: The test will be multiple choice covering topics such as general information about books, reference materials, library organization, Internet usage and online database searching.

MUSIC – 10:30-11:15 AM

Instructor: Walton McMurry

Other Eligibility Requirement: Only students who are currently participating in any musical activity or study, curricular or extracurricular, may enter.

Description of Test: The multiple-choice test will include test items regarding music history, basic music theory, and music literature.

OKLAHOMA HISTORY – 10:30-11:15 AM

Instructor: Becky Jacobs-Pollez

Other Eligibility Requirement: Students who have previously taken this exam may not enter this contest.

Description of Test: The test will consist of objective questions at different levels of complexity with tie breakers. Areas tested will include: pre-historic peoples, the early explorers, the Five Civilized Tribes, Indian removal, the Civil War, Oklahoma and Indian Territory, statehood and the twentieth century.

OKLAHOMA WILDLIFE IDENTIFICATION – 10:30AM-11:15AM

Instructor: Don Loving

Other Eligibility Requirement: Students who have previously taken this exam may not enter this contest.

Description of Test: Students will identify by common name 100 of the birds, mammals, reptiles, amphibians and fishes regularly found in the Great State of Oklahoma from images. Standard common names will be used. Recommended study materials would be to search for “Checklists Oklahoma” and insert the term birds, mammals, etc.

POWERPOINT PRESENTATION (Div. I & II) – 10:30AM-11:15AM

Judges: Cynthia Thomsen, Melissa McBride, & Mignon Grisham

Eligibility Requirement: Only 9th through 12th grade students who are enrolled in or have completed a course in Computer Applications may enter.

Description of Test: This is a presentation event. This year students may only enter as individuals. Students will prepare ahead of time and bring to the scholastic meet a PowerPoint presentation saved to a flash or USB drive. The presentation should be saved as a PowerPoint 2013 version. Students will give a live PowerPoint presentation with narration (speaking parts). The topic is: **My Career Choice**. Students will research the degree/certification/technical training pathway necessary to prepare for their career of choice as well as scope of work and earning potential. The time is limited between two (2) and three (3) minutes. Individuals will be judged by a panel of judges.

POWERPOINT PRESENTATION (Div. III & IV) – 9:30 AM-10:15 PM

Judges: Cynthia Thomsen, Melissa McBride, & Mignon Grisham

Eligibility Requirement: Only 9th through 12th grade students who are enrolled in or have completed a course in Computer Applications may enter.

Description of Test: This is a presentation event. This year students may only enter as individuals. Students will prepare ahead of time and bring to the scholastic meet a PowerPoint presentation saved to a flash or USB drive. The presentation should be saved as a PowerPoint 2013 version. Students will give a live PowerPoint presentation with narration (speaking parts). The topic is: **My Career Choice**. Students will research the degree/certification/technical training pathway necessary to prepare for their career of choice as well as scope of work and earning potential. The time is limited between two (2) and three (3) minutes. Individuals will be judged by a panel of judges.

PHYSICS – 11:30- 12:15 PM

Instructor: Wes Reddish

Description of Test: The test will consist of approximately 40 multiple choice questions selected from the theory, concepts and problems of general physics and are based upon the same level of physics as that taught in the high schools of Oklahoma. The questions will be selected from the following specific areas: systems of units, kinematics, dynamics, elasticity, trajectory motion, rotational motion, sound, fluid mechanics, gravity, thermodynamics, electricity, magnetism, electromagnetic radiation, optics, and modern physics. General formulas

should be learned, but conversion factors will be supplied. Calculators are allowed but not necessary. Adopted standard high school level physics textbooks are used as reference for the selection of test questions.

SPANISH – 10:30-11:15 AM

Instructor: Betty Acevedo

Description of Test: The test will cover basic beginning vocabulary and verbs. Grammatical construction will include gender and number agreement, possessive adjectives, regular and irregular verbs, asking questions and discussing activities of school and daily life.

SPREADSHEET APPLICATIONS (All Divisions) – 9:30-10:15 AM

Instructor: Mickey Jack

Other Eligibility Requirement: Only students who have completed or who are currently taking an introductory course on Microsoft Office Suite 2013 and have some experience with commonly used spreadsheet applications may enter.

Description of Test: The test is given and graded Online and based on Microsoft Excel 2010 using PCs. The test contains approximately 100 questions such as multiple choice, fill-in-the-blanks and true/false with questions.

TRIGONOMETRY – 10:30-11:15 AM

Instructor: Brandon Bettes

Other Eligibility Requirement: Only students who are not currently enrolled in or who have not completed a math course of a level higher than trigonometry may enter.

Description of Test: The test will be a written objective test covering: trigonometric functions, radian and degree measure, triangles and applications, proving identities, solving trigonometric equations, graphing trigonometric functions, inverse trigonometric functions, and polar coordinates. Scientific calculators are necessary, but graphing calculators are suggested. Calculators such as TI-89 or TI-92 or equivalent models from other makers will not be allowed.

VOCABULARY – 11:30-12:15 PM

Instructor: Jeana West

Other Eligibility Requirement: Only high schools **SENIORS** may enter.

Description of Test: The timed test is to approximate the student's degree of reading vocabulary proficiency. The words are typical of those recognized by an educated adult.

Vocal Performance – 10:30-11:15 AM

Instructor: Susan Yeager

Other Eligibility Requirement: One song from either the classical or musical theater genre (no pop, hip-hop, rap, country, etc.).

Description of performance: This is a singing competition. Students will choose one song that is no longer than 3 minutes. The song must be memorized with the music marked for the accompanist provided. The student may also bring their own accompanist, or they may use an accompaniment track. Song titles with the composers and accompaniment track (if using) must be submitted at least **2 weeks before (February 12, 2020)** the day of the scholastic meet. The students will need to show professionalism with the way they dress and introduce themselves. They will be judged on their professionalism, pitch accuracy, tone quality, pronunciation, breath control, and character portrayal. **Please contact Susan Yeager at syeager@mscok.edu for any questions.**

WORLD GEOGRAPHY – 10:30-11:15 AM

Instructor: Kirk Rodden

Description of Test: The test will consist of a series of objective questions and essay tie breakers over the following:

1. Cartography – basic map use skills and terminology.
2. Physical geography – weather and climate, geologic processes and the hydrosphere.
3. Economic geography – the major categories of economic activity in the world; the major sources of world food supplies.
4. Cultural or human geography – the major cultures of the world, areas of world population concentration and the problems of world population growth.
5. Students should have a general knowledge of the physical and political world.

WORLD HISTORY – 11:30-12:15 PM

Instructor: Becky Jacob-Pollez

Other Eligibility Requirement: Students who have taken this MSC exam previously may not enter this contest.

Description of Test: The test will consist of a series of objective questions at different levels of complexity with tie breakers. Areas tested will include: the ancient civilizations, the Middle Ages, the early modern era, and the modern era. There will be questions on the history of Europe, the Middle East, East Asia, South Asia (the Indian sub-continent), Africa, and the Americas.

MURRAY

STATE COLLEGE

Time	Title	Room
9:30	Algebra II	HS 119
	American Government	CR 102
	American History	HS 118
	American Literature	CR 103
	Anatomy and Physiology	LS 100
	Art Portfolio	Library
	Calculus	CR 104
	Child Development	HS 213
	Expository Writing (Div. I & II)	CR 205
	Expository Writing (Div. III & IV)	CR 206
	General Science	CC 101
	Library Skills	FA 112
	Power Point Presentation (Div. III & IV)	AD 216
	Spreadsheet Applications	CR 204
10:30	Accounting	CR 205
	Agriculture Business	CR 204
	Geometry	HS 119
	Chemistry	LS 100
	English Literature	CR 103
	Music	FA 112
	Oklahoma History	HS 118
	Oklahoma Wildlife Identification	LS 113
	Spanish	CR 206
	Trigonometry	CR 104
	World Geography	CR 102
	Power Point Presentation (Div. I & II)	AD 216
	Vocal Performance	AUD
	11:30	Algebra I
Art Drawing		Library
Behavioral Science		HS 213
Business Math		CR 205
Computer Fundamentals		CR 204
Current Events		CR 104
General Biology		LS 100
Physics		CR 206
Vocabulary		CR 102
World History		HS 118

Tabulation Room is located in CR 201.

Room Abbreviation Key:

AD – Administration	AUD - Fletcher Auditorium
CC – Campus Center	CR – Classroom Building
FA – Fine Arts	HS – Health Sciences
LS – Library Science	SS – Student Services

NOTES: