



Mathematics Midterm Exam Topics 2018

8th Grade, Teacher: Jennifer O'Neill

Number

Indices:

- to be able to simplify indices
- to be able to solve indices
- to be able to express numbers in index form

Factors, Multiples and Primes

- to be able to list all the factors of a number
- to be able to recognize multiples and factors of any given number
- to be able to identify which numbers are prime numbers when given a list of numbers
- to be able to find the highest common factor or number pairs
- to be able to find the lowest common multiple of number pairs
- to be able to express a number as a product of its prime numbers
- to be able to use prime factorization to calculate the highest common factor and lowest common multiple of two numbers

Surds

- to be able to simplify surds
- to be able to multiply surds

Decimals

- to be able to round to decimal places
- to be able to order decimals
- to be able to add decimals
- to be able to subtract decimals
- to be able to multiply decimals
- to be able to divide decimals

Algebra

Expressions

- to be able to form expressions from word problems
- to be able to collect like terms and simplify expressions
- to be able to fully factorise algebraic expressions
- to be able to expand both single and double brackets
- to be able to express the perimeter and area of a shape algebraically

30

Sequences

- to be able to continue a visual sequence
- to be able to recognize and continue common sequences (square numbers, prime numbers etc)
- to be able to calculate the nth term form an arithmetic sequence
- to be able to generate an arithmetic sequence using the nth term
- to be able to calculate any term using the nth term
- to be able to identify whether a number will be included in a sequence when given the nth term
- to be able to generate a quadratic sequence using the nth term.

Geometry

Pythagoras Theorem

- to be able to calculate any missing length on a right-angled triangle
- to be able to identify right-angled triangles by applying Pythagoras theorem
- to be able to solve problems using Pythagoras theorem
- to be able to use surds
- to be able to express solutions in surd form

Angles

- to be able to measure angles
- to be able to name angles
- to be able to calculate angles around a point
- to be able to calculate angles on a straight line
- to be able to calculate angles in a triangle
- to be able to calculate angles on parallel lines
- to be able to apply the rules of vertically opposite angles
- to be able to calculate the interior and exterior angles in any polygon
- to be able to calculate the sum of the interior and exterior angles in any polygon
- to be able to calculate the bearings between two or more points





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Language Arts Midterm Exam Topics 2018
8th Grade, Teacher: Rose Kulczycki de Dominguez

I – Literary Techniques: Students must be able to define and identify examples of the following literary techniques from The Woman in Black

- Rational Protagonist
- Pathetic Fallacy
- Conspiracy of Silence
- Contrast
- Foreshadowing
- Symbolic Place Names
- Frame Narrative
- Sensory Imagery (Visual, Auditory, Emotional)

II –Tree Shaker: Students must be able to identify and describe the following nonfiction text structures of Tree Shaker: The Life of Nelson Mandela.

- Chronological Order
- Cause and Effect
- Problem/Solution
- Compare and Contrast

III – Connections: Students must be able to analyze issues presented in the connected nonfiction content.

- Rites of Passage
- Non-racialism/Africanism
- Arab Spring

IV – Grammar: Students must be able to identify and use these grammar rules correctly.

- Parallel Structure
- Active and Passive Voice

V – Writing: Students must be able to write/edit a paragraph or essay using the IPEEL format.

- Introduction
- Explanation
- Point
- Link
- Example
- 5 Paragraph Essay Format: Introduction, Body and Conclusion Paragraphs

***Use NoRedInk, The Woman in Black, The Tempest and your notebook to prepare.**



Tópicos de Lengua Española 2018

8th Grade, Teacher: Rita Pérez

Tipos de textos

Entrevistas: sus clases, concepto, procedimientos, función, adjetivos y características.

Textos literarios: clasificación, tipos de personajes, roles de los personajes y roles propios de un género.

El panel: función, formato, estructura, recursos lingüísticos, integrantes, funciones, del moderador, los panelistas y el auditorio o público y organización.

La argumentación: y contra argumentación, argumentación y sus dimensiones, tipos de conectores, fórmulas para implicar al receptor.

Textos periodísticos: la noticia (que, quien, cuando, como, por que), características, estructura, función, medios de difusión, medios digitales, pasos para la noticia.

Textos literarios: sus características, géneros líricos, literarios, dramáticos, narrativos, narrador, clasificación tipos de narradores.

Guías turísticas: función, tipo de textos, estructuras, tipos de mensajes, (íconicos y verbales) textos persuasivos, procedimientos para persuadir o convencer, tipos de conectores.

Gramática

Préstamos y extranjerismos: conceptos, definiciones de c\u00f3n, diferencias y semejanzas, clasificación, según idioma de procedencia.

Funciones del lenguaje: intención de cada función, definición de cada función (expresiva, representativa y apelativa).

Niveles del lenguaje: (culto, formal o estándar, coloquial, vulgar, etc.) léxico, lingüístico.

Los conectores: sus clasificaciones textuales y lógicos en la argumentación, (de carácter casual, ejemplos o analogías), fórmulas para implicar al receptor.

Las palabras: sus constituyentes.

Raíz y morfema: flexivos y derivativos o afijos y desinencia.

Palabras y sintagma: principales clases de palabras, (sustantivos, artículos determinantes, adjetivos, verbos, adverbios, pronombres, interjecciones, palabras de enlaces, preposiciones y conjunciones).

Sintagmas y sus clases: nominal y verbal.

Clases de artículos: determinante, función y clasificación.

Palabras, variables e invariables.

Clases de sustantivos

Clases de sintagmas

Creación de significados

Figuras literarias: metáfora, símil, metonimia, sinonimia, etc.

La oración.

Enunciados: clases de enunciados, oración y frases, partes de la oración, (sujeto, predicado), definición y función, concordancia de género y número.

Tipos de narradores: externo, interno, múltiple.

La descripción: tipos y recursos.

R. Pérez



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Social Studies Midterm Exam Topics 2018

8th Grade, Teacher: James Tanner

Ancient Greece:

- Cultural accomplishments/contributions of ancient Greece to the world
- Geography of Greece, locations of Athens and Sparta
- Similarities and differences between Athens and Sparta
- Important people: Pericles, Aristotle, Socrates
- Socrates and his distrust of democracy
- Aristotle and his Golden Mean
- The Peloponnesian War and its causes and outcome
- Sparta and its use of helots
- Greek mythology

Ancient Rome:

- Effective skills at empire building
- Important people: Julius Caesar, Augustus Caesar, Hannibal, Scipio, Jesus, Constantine
- The Punic Wars
- Social classes of Rome
- How Rome viewed citizenship
- Romulus and Remus and the founding myth of Rome
- Greek influence on Rome
- Important places related to Rome and Julius Caesar (Gaul, Carthage, etc.)
- The rise of Christianity in the West and the Roman Empire



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Science Midterm Exam Topics 2018
8thGrade, Teacher: Leonora Nivar

INTRODUCTION TO MATTER

- 1.1. Describing matter
- 1.2. Classifying matter
- 1.3. Changes in matter

SOLIDS, LIQUIDS, AND GASES

- 1.1. States of matter
- 1.2. Changes of matter
- 1.3. Gas behavior

ELEMENTS AND THE PERIODIC TABLE

- 1.1. Introduction to atoms
- 1.2. Organizing the elements
- 1.3. Metals
- 1.4. Nonmetals and metalloids
- 1.5. Radioactive elements

ATOMS AND BONDING

- 1.1. Atoms, bonding and the periodic table
- 1.2. Ionic bonds
- 1.3. Covalent bonds
- 1.4. Bonding in metals

NEWTON'S FIRST LAW OF MOTION

NEWTON'S SECOND LAW OF MOTION

NEWTON'S THIRD LAW OF MOTION

FRICTION AND GRAVITY

FREE FALL AND CIRCULAR MOTION

MAGNETISM

Leonora Nivar