KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

# 2026 CUSTOMISED KZN ATP: Grade 12 – Term 1: PHYSICAL SCIENCES

| Weeks | | Knowledge Area | Concepts for week | Page in CAPS doc | Date completed | SMT Member Signature | % Curriculum Coverage | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Per Term | Annual |
| Week 1<br>14 – 16 Jan<br>(3 days) | | MECHANICS: Momentum & Impulse<br>(2 hrs) | • Define & calculate the momentum of a moving object: p = mv<br>• Describe the vector nature of momentum & draw vector diagrams.<br>• State Newton's second law in terms of momentum: $F_{net} = \frac{\Delta p}{\Delta t}$<br>• Calculate the change in momentum when a resultant force acts on an object.<br>• Define impulse.<br>• Use the impulse momentum theorem ($F_{net}\Delta t = m\Delta v$) in calculations for a variety of situations (1-D). | 99 | | | 8.6 | 3,1 |
| Week 2<br>19 – 23 Jan<br>(5 days) | | MECHANICS: Momentum & Impulse<br>(4 hrs) | • Impulse and safety considerations.<br>• State the principle of conservation of linear momentum.<br>• Explain what is meant by an isolated system, internal and external forces.<br>• **Prescribed Experiment (Formal)**<br>Verify the conservation of linear momentum<br>• Apply conservation of momentum to collisions between two objects (one dimension).<br>• Distinguish between elastic and inelastic collisions bycalculation. | 100 - 101 | | | 20 | 7,2 |
| Week 3<br>26 – 30 Jan<br>(5 days) | | MECHANICS: Vertical projectile motion<br>(4 hrs) | • Explain what is meant by free-fall and a projectile.<br>• Use equations of motion to determine the position, velocity and displacement of a projectile at any given time.<br>• Sketch y vs t, v vs t and a vs t graphs for a free falling object, an object thrown vertically upwards, an object thrown vertically downwards and bouncing objects. | 102 | | | 31,4 | 11,3 |
| Week 4<br>02 – 06 Feb<br>(5 days) | | MECHANICS: Vertical projectile Motion<br>(4 hrs) | • Do calculations using equations of motion for two objects simultaneously in free fall.<br>• For given y vs t, v vs t or a vs t graphs, determine position, displacement, velocity and/or acceleration at any time t.<br>• For given y vs t, v vs t or a vs t graphs, describe the motion of an object dropped, thrown vertically upwards, thrown vertically downward or bouncing.<br>**Recommended Experiment:**<br>(Informal) Investigate the motion of a falling body. Draw a graph of position vs time and velocity vs time for a free falling object and use the data to determine the acceleration due to gravity | 102 - 103 | | | 42,9 | 15,5 |
| Week 5<br>O9 – 13 Feb<br>(5 days) | | MATTER & MATERIALS: Organic molecules<br>(4 hrs) | • Define organic molecules, functional group, hydrocarbon, homologous series, saturated and unsaturated compounds, and structural isomers.<br>• Write condensed, structural & molecular formulae (max 8 C atoms, 1 functional group per molecule) for alkanes (no rings), alkenes (no rings), alkynes, alcohols, haloalkanes (no rings), carboxylic acids, aldehydes, ketones and esters.<br>• Write IUPAC names for structural / condensed structural formulae for compounds from above series. | 104 | | | 54,3 | 19,6 |
| Week 6<br>16 – 20 Feb<br>(5 days) | | MATTER & MATERIALS: Organic molecules<br>(4 hrs) | • Write IUPAC names from structural or condensed structural formulae for compounds listed (one functional group per molecule, max. two functional groups for haloalkanes).<br>• Identify alkyl substituents (methyl- and ethyl-); max. THREE alkyl substituents.<br>• Identify compounds that are saturated, unsaturated, structural isomers (chain, positional and functional).<br>• Identify the type of intermolecular forces in different organic molecules<br>• Physical properties: boiling point, melting point, vapour pressure | 104 - 108 | | | 65,7 | 23,7 |

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|---|---|---|---|---|---|---|---|---|
| | | | | | | | Per Term | Annual |
| **Week 7**<br>**23 – 27 Feb**<br>**(5 days)** | | **MATTER & MATERIALS: Organic molecules**<br>**(4 hrs)** | • Relationship between physical properties and strength of IMF, type of functional group, chain length and branching<br>• Combustion of alkanes in excess $O_2$ and use as fuels.<br>• Equation & reaction conditions for the formation of an ester and IUPAC names for reactant and products.<br>• Classify reactions as elimination, addition or substitution.<br>• Equations and reaction conditions for addition reactions of alkenes. | **106** | | | **77** | **27,8** |
| **Week 8**<br>**02 – 06 March**<br>**(5 days)** | | **MATTER & MATERIALS: Organic molecules**<br>**(4 hrs)** | • Equations and reaction conditions for elimination reactions: dehydrohalogenation of haloalkanes, cracking of alkanes, dehydration of alcohols<br>• Equations and reaction conditions for substitution reactions: hydrolysis of haloalkanes, halogenation of alkanes | **107 – 117** | | | **88,6** | **32** |
| **Week 9**<br>**09 – 13 March**<br>**(5 days)** | | **(4 hrs)** | • Revision: Newton's Laws (Grade 11)<br>• Revision: Momentum & Impulse.<br>• Revision: Vertical Projectile Motion.<br>• Revision: Organic Molecules. | **117 - 118** | | | **100** | **36** |
| **Week 10**<br>**16 – 20 March**<br>**(5 days)** | | **CONTROLLED TEST**<br>**(2 Hours)** | **ONE PAPER (100 Marks)**<br>• Newton's laws of motion<br>• Momentum and impulse<br>• Vertical projectile motion<br>• Organic molecules | | | | | |
| **Week 11**<br>**23 – 26 March**<br>**(4 days)** | | | | | | | | |

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# 2026 CUSTOMISED KZN ATP: Grade 12 – Term 2: PHYSICAL SCIENCES

| Weeks | | Knowledge Area | Concepts for week | Page in CAPS doc | Date completed | SMT Member Signature | % Curriculum Coverage | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Per Term | Annual |
| **Week 1**<br>**08 – 10 April**<br>**(3 days)** | | **MECHANICS: Newton's Laws Work Done by a Force**<br>**(2 hrs)** | • Discussion and review of March Controlled Test<br>• Define the work done on an object.<br>• Draw force diagrams & free body diagrams.<br>• Calculate the net work done on an object.<br>• Distinguish between positive work and negative net work done on a system. | **117 - 118** | | | **100** | **36** |
| **Week 2**<br>**13 – 17 April**<br>**(5 days)** | | **MECHANICS: Work, energy and power**<br>**(4 hrs)** | • State the work-energy theorem.<br>• Apply the work-energy theorem on horizontal, vertical and inclined planes.<br>• Define conservative and non-conservative forces and give examples.<br>• State the principle of conservation of mechanical energy.<br>• Solve problems using the equation $W_{nc} = \Delta E_k + \Delta E_p$ Show that $E_{mech}$ is conserved in the absence of non-conservative forces. | **118** | | | **8.6** | **39** |
| **Week 3**<br>**20 – 24 April**<br>**(5 days)** | | **MECHANICS: Work, energy and power**<br>**(4 hrs)** | • Define power and calculate the power involved when work is done.<br>• Perform calculations using $P_{ave} = Fv_{ave}$ when an object moves at a constant speed along a rough horizontal surface or a rough inclined plane<br>• Calculate the minimum power required of an electric motor to pump water from a borehole of a particular depth at a particular rate using $W_{nc} = \Delta Ek + \Delta Ep$<br>• State the Doppler Effect and explain (using illustrations) the change in pitch observed when a source moves toward or away from a listener (sound and ultra sound).<br>• State applications of the Doppler Effect. | **117-120** | | | **20** | **43,3** |
| **Week 4**<br>**28 – 30 April**<br>**(3 days)** | | **WAVES, SOUND & LIGHT: Doppler Effect**<br>**(2 hrs)** | • Solve problems using the Doppler formula.<br>• Solve problems using the Doppler formula.<br>$f_L = \frac{V \pm V_L}{V \pm V_S} f_S$ when EITHER source or listener moves.<br>• Calculations involving Doppler formula.<br>• With light, explain 'red shifts' & use the Doppler Effect to explain why we conclude that the universe is expanding. | **117 - 120** | | | **31,4** | **47,4** |
| **Week 5**<br>**04 – 08 May**<br>**(5 days)** | | **CHEMICAL CHANGE: Rate and extent of reaction**<br>**(4 hrs)** | • Rates of reaction and factors affecting rate [nature of reacting substances, concentration, pressure (for gases), temperature and presence of a catalyst].<br>• Explain in terms of the collision theory, how various factors affect the rate of chemical reactions.<br>• Answer questions, and interpret data (graphs or tables) on different experimental techniques for measuring the rate of reaction. | **121 - 122** | | | **42,9** | **51,5** |
| **Week 6**<br>**11 – 15 May**<br>**(5 days)** | | **CHEMICAL CHANGE: Rate and extent of reaction**<br>**(4 hrs)** | • Define the term *catalyst*<br>• Explain that a catalyst increases the rate of a reaction by providing an alternative path of lower activation energy. It therefore decreases the net activation energy.<br>• Interpret graphs of distribution of molecular energiesto explain how a catalyst, temperature and concentration affect the reaction rate.<br>• **Recommended experiment (Informal)**<br>Rate of chemical reactions with sodium thiosulfate and hydrochloric acid. | **123-124** | | | **54,3** | **55,7** |

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|---|---|---|---|---|---|---|---|---|
| | | | | | | | Per Term | Annual |
| **Week 7**<br>**18 – 22 May**<br>**(5 days)** | | **Chemical Change: Chemical Equilibrium**<br>**(4 hrs)** | • Explain: open & closed systems; reversiblereactions; dynamic equilibrium<br>• List the factors that influence the position of an equilibrium.<br>• State Le Chatelier's principle and use it to explain changes in equilibria<br>• Interpret simple graphs illustrating equilibrium. | **123 - 124** | | | **65,7** | **59,8** |
| **Week 8**<br>**25 - 29 May**<br>**(5 days)** | | **CHEMICAL CHANGE: Chemical equilibrium**<br>**(4 hrs)** | • State the factor that influence the value of theequilibrium constant $K_c$.<br>• Write an expression for the equilibrium constant from a given equation.<br>• Perform calculations based on $K_c$ values..<br>• Explain the significance of high and low values of the equilibrium constant.<br>• **Recommended experiment** (informal): Investigate equilibrium and the factors affecting equilibrium in the equilibrium of $CoCl_2$ and $H_2O$. | **124** | | | **77** | **63,9** |
| **Week 9**<br>**01 - 05 June**<br>**(5 days)** | | **CHEMICAL CHANGE: Acids & bases**<br>**(4 hrs)** | • Define acids and bases according to the Arrhenius andLowry-Brønsted models.<br>• Distinguish between strong and weak acids/bases with examples.<br>• Distinguish between concentrated and dilute acids/bases.<br>• Explain the pH scale and calculate pH values of strong acids and strong bases.<br>• Identify conjugate acid-base pairs for given compounds.<br>• Write neutralisation reactions of common laboratory acids and bases. | **125** | | | **88,6** | **68** |
| **Week 10**<br>**08 - 12 June**<br>**(5 days)** | | **CHEMICAL CHANGE: Acids & bases**<br>**(4 hrs)** | • **Prescribed experiment** (formal) How do you use the titration of oxalic acid against sodium hydroxide to determine the concentration of sodium hydroxide?<br>• Perform calculations based on titration reactions & motivate the choice of an Indicator.<br>• Determine the approximate pH of salts in salt hydrolysis.<br>• Define the concept of Kw and explain the auto ionization of water.<br>• Compare the $K_a$ and $K_b$ values of strong and weak acids and bases.<br>• Compare strong and weak acids by looking at pH, conductivity & reaction rate. | **126 - 128** | | | **100** | **72,2** |
| **Week 11**<br>**17 - 19 June**<br>**(3 days)** | | **JUNE EXAMINATION**<br>**3 hour duration for each of papers 1 and 2** | **Paper 1 (150 Marks)**<br>• Newton's laws of motion<br>• Momentum and impulse<br>• Vertical projectile motion<br>• Work, energy and power<br>• Doppler effect<br>• Electrostatics (Grade 11)<br>• Electric Circuits (Grade 11) | | | | | |
| **Week 12**<br>**22 - 26 June**<br>**(5 days)** | | | **Paper 2 (150 Marks)**<br>• Stoichiometry<br>• Organic Molecules<br>• Rate and Extent of Chemical Reactions<br>• Chemical Equilibrium<br>• Acids & Bases | | | | | |

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# 2026 CUSTOMISED KZN ATP: Grade 12 – Term 3: PHYSICAL SCIENCES

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|---|---|---|---|---|---|---|---|---|
| | | | | | | | Per Term | Annual |
| **Week 1**<br>**21 – 24 July**<br>**(4 days)** | | **ELECTRICITY & MAGNETISM: Electrostatics & Electric Circuits**<br>**(3 hrs)** | • Review and corrections of June Exams<br>**Electrostatics:**<br>• Coulomb's Law<br>• Electric fields<br>**Electric circuits**<br>• Solve problems involving current, voltage and resistance for circuits containing arrangements of resistors (maximum four) in series and in parallel. | | | | **11** | **75,3** |
| **Week 2**<br>**27 – 31 July**<br>**(5 days)** | | **ELECTRICITY & MAGNETISM: Electric Circuits**<br>**(4 hrs)** | • Explain the term internal resistance.<br>• Solve circuit problems using<br>• $\varepsilon = IR_{ext} + Ir$ or $\varepsilon = V_{load} + V_{int\ resistance}$.<br>• Solve problems, with internal resistance, for circuits containing arrangements of resistors in series and in parallel (maximum four resistors).<br>• **Recommended experiment** (informal): Determine the internal resistance of a battery. | **84 – 85** | | | **25,9** | **79,4** |
| **Week 3**<br>**03 -07 Aug**<br>**(5 days)** | | **ELECTRICITY & MAGNETISM: Electrodynamics**<br>**(4 hrs)** | • State the energy conversion in generators & use principle of electro-magnetic induction to explain how generators work.<br>• Give examples of uses of AC & DC generators & functions of components in both.<br>• State the energy conversion in motors & use the motoreffect to explain how motors work.<br>• Explain the functions of components of motors and give examples of uses of motors.<br>• State the advantages of alternating current over direct current.<br>• Draw and interpret sketch graphs of voltage vs time and current vs time for AC and DC generators. | | | | **40,7** | **83,5** |
| **Week 4**<br>**11 – 14 Aug**<br>**(4 days)** | | **ELECTRICITY & MAGNETISM: Electrodynamics**<br>**(2 hours)** | • Define the term *rms* for an alternating voltage or an alternating current.<br>• Solve problems using<br>$I_{rms} = \frac{I_{max}}{\sqrt{2}}$; $V_{rms} = \frac{V_{max}}{\sqrt{2}}$; $P_{ave} = I_{rms}^2 R$;<br>$P_{ave} = \frac{V_{rms}^2}{R}$ and $P_{ave} = I_{rms} V_{rms}$ | **130** | | | **55,5** | **87.6** |
| | | **M & M: Optical phenomena and properties of materials**<br>**(1 hour)** | **Optical phenomena and properties of materials**<br>• Describe the photoelectric effect and state its significance.<br>• Define threshold frequency, $f_o$.<br>• Define work function, $W_o$. | **130** | | | | |
| **Week 5**<br>**17 - 21 Aug**<br>**(5 days)** | | **MATTER & MATERIALS: Optical phenomena and properties of materials**<br>**(4 hrs)** | • Perform calculations using the photoelectric equation:<br>$E = W_o + K_{max}$, where $E = hf$, $W_o = hf_o$ and $K_{max} = \frac{1}{2} mv_{max}^2$<br>• Explain the effect of intensity and frequency on the photoelectric effect.<br>• Explain the formation of atomic spectra by referring to energy transitions.<br>• Explain the difference between atomic absorption spectra and atomic emission spectra | **132** | | | **70,4** | **91,7** |

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| **Week 6 24 - 28 Aug (5 days)** | | **CHEMICAL CHANGE: Electrochemical reactions (4 hrs)** | • Define oxidation & reduction in terms of electron transfer & oxidation numbers.<br>• Define oxidising & reducing agents in terms of oxidation and reduction.<br>• Define an anode and cathode in terms of oxidation and reduction.<br>• Define an *electrolyte*<br><br>**Galvanic cells**<br>• Define a galvanic cell.<br>• State the function of a salt bridge.<br>• Predict the movement of ions and the direction of electron flow in external circuit.<br>• Write half-reactions at each electrode & the overall cell reaction.<br>• Predict in which half-cell oxidation / reduction takes place.<br>• Use cell notation or diagrams to represent a galvanic cell.<br>• Calculate emf for a galvanic cell.<br>• Explain that $V_{cell}$ decreases as [product ions] increases and [reactant ions] decreases and $V_{cell} = 0$ when equilibrium is reached, (the cell is 'flat').<br>• State the standard conditions under which standard electrode potentials are determined. | **134 - 138** | | | **85.2** | **95,9** |
| **Week 7 31 Aug – 04 Sept (5 days)** | | **CHEMICAL CHANGE: Electrochemical reactions (4 hrs)** | • Describe the standard hydrogen electrode and explain its role as the reference electrode.<br>• Explain how standard electrode potentials can be determined using the reference electrode; state the convention regarding positive and negative values.<br><br>**Electrolytic cells**<br>• Define an electrolytic cell.<br>• Describe the movement of ions in the solution.<br>• State the direction of electron flow in the external circuit.<br>• Write equations for the half-reactions at the anode and cathode.<br>• Write down the overall cell reaction.<br>• Describe, using half-reactions and the equation for the overall cell reaction as well as the layout of the particular cell using a schematic diagram, the following electrolytic processes:<br>  ◦ The decomposition of copper (II) chloride<br>  ◦ Electroplating, e.g. the electroplating of an iron spoon with silver/nickel<br>  ◦ Refining of copper<br>• The electrolysis of a concentrated solution of sodium chloride. | **134** | | | **100** | **100** |
| **Week 8 07 - 11 Sept (5 days)** | | **Paper 2 Revision (2 hrs)**<br><br>**Paper 1 Revision (2 hrs)** | **Paper 2**<br>• Representing chemical change (Gr 10)<br>• Intermolecular forces<br>• Energy and chemical change (Gr 11)<br>• Stoichiometry (application only) (Gr 11)<br>• Chemical Change<br>• Organic Chemistry<br><br>**Paper 1**<br>• Newton's laws (Gr 11)<br>• Electrostatics (Gr 11)<br>• Electric circuits (Gr 11)<br>• Mechanics<br>• Waves, Sound and light<br>• Electricity and magnetism<br>• Optical properties of Matter | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Week 9, 14 - 18 21 – 23 Sept** | | **PREPARATORY EXAMINATION P1: 3 hrs P2: 3 hrs** | **PAPER 1: 150 marks**<br>• Mechanics (65)<br>• Waves, Sound and light (15)<br>• Electricity and magnetism (55)<br>• Matter & Materials (15)<br><br>**PAPER 2: 150 marks**<br>• Chemical Change (92)<br>• Matter & Materials (58)<br><br>The following **gr 10 and 11 topics** will form part of the two papers::<br><br>**Paper 1**<br>• Newton's laws (Gr 11)<br>• Electrostatics (Gr 11)<br>• Electric circuits (Gr 11)<br><br>**Paper 2**<br>• Representing chemical change (Gr 10)<br>• Intermolecular forces<br>• Energy and chemical change **(Gr 11)**<br>• Stoichiometry (Gr 11) | | | | | |

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# 2026 CUSTOMISED KZN ATP: Grade 12 – Term 4: PHYSICAL SCIENCES

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| **Week 1**<br>**06 – 09 Oct**<br>**(4 days)** | | **REVIEW: PREPARATORY EXAMINATIONS**<br>**(3 hrs)** | Discussion and correction of errors in Preparatory Exams (P1 & P2) | | | | | |
| **Week 2**<br>**12 - 16 Oct**<br>**(5 days)** | | **REVIEW: PREPARATORY EXAMINATIONS**<br>**(4 hrs)** | Discussion and correction of errors in Preparatory Exams (P1 & P2) | | | | | |
| **Week 3**<br>**19 – 23 Oct**<br>**(5 days)** | | **CONSOLIDATION AND REVISION**<br>**(4 hrs)** | Preparation for final Exams | | | | | |
| **FINAL EXAMS**<br><br>**Week 4 - 7**<br>**26 Oct – 27 Nov** | | | **PAPER 1: 150 marks**<br>• **Mechanics (65)**<br>Momentum and impulse; Vertical projectile motion, Work, energy and power, Newton's laws (Gr 11)<br>• **Waves, Sound and light (15)** Doppler effect<br>• **Electricity and magnetism (55)**<br>Electric circuits, Electrodynamics, Electrostatics (Gr11), Electric circuits (Gr 11)<br>• **Matter & Materials (15)**<br>Optical phenomena and properties of materials<br><br>**PAPER 2: 150 marks**<br>• **Chemical Change (92)**<br>Rate and extent of reaction, Chemical equilibrium, Acids and bases, Representing chemical change (Gr 10), Energy and chemical change (Gr 11), Stoichiometry (application only) (Gr 11), Electrochemical reactions<br>• **Matter & Materials (58)**<br>Organic molecules, Intermolecular forces (Gr 11) | | | | | |

**NAME OF SCHOOL:** _____ **YEAR: 2026**

<table>
<tr><th colspan="6">PROGRAMME OF FORMAL ASSESSMENT FOR GRADE 12</th></tr>
<tr><th colspan="5">ASSESSMENT TASKS:SBA (25%)</th><th>END-OF-YEAR ASSESSMENT (75%)</th></tr>
<tr><th colspan="2">TERM 1</th><th colspan="2">TERM 2</th><th colspan="2">TERM 3</th><th>TERM 4</th></tr>
<tr><th>Type</th><th>Weighting and duration</th><th>Type</th><th>Weighting and duration</th><th>Type</th><th>Weighting and duration</th><th>Type</th></tr>
<tr><td>Experiment<br>(Conservation of linear momentum)<br><br>(Term weight : 25%)</td><td>15%<br>(Minimum 50 marks and minimum 2 hours duration)</td><td rowspan="2">June Exam<br>(Term weight : 100%)</td><td rowspan="2">20%<br><br>Two papers of 150 marks each<br><br>Paper 1: Physics<br>150 marks<br>3 hours duration<br><br>Paper 2: Chemistry<br>150 marks<br>3 hours duration</td><td>Experiment<br>(Determine the unknown concentration of an acid or base by titration against a standard solution)<br><br>(Term weight: 25%)</td><td rowspan="2">15%<br><br>(Minimum 50 marks and minimum 2 hours duration)</td><td rowspan="2">Final Examination<br>Two papers of 150 marks each<br><br>Paper 1: Physics<br>(150 marks)<br>3 hours duration<br><br>Paper 2: Chemistry<br>(150 marks)<br>3 hours duration</td></tr>
<tr><td>Control Test<br><br>(Term weight : 75%)</td><td>20%<br>(1X100 Marks)<br>2 hours<br><br>Physics: 50 marks<br>Chemistry: 50 marks</td><td>Preliminary Examination<br>(Term weight: 75%)</td></tr>
<tr><td colspan="2">Total weighting: 35%</td><td colspan="2">Total weighting: 20%</td><td colspan="2">Total weighting: 45%</td><td></td></tr>
<tr><td colspan="7">FINAL MARK = 25% (SBA) + 75% (FINAL EXAM) = 100%</td></tr>
</table>

**Notes for the teacher:**

- **TWO formal & TWO informal practical activities must be done**
- **Before each formal task, there must be evidence of at least 2 informal tasks conducted.**
- **All tasks must be pre-moderated before they are administered.**