

## 24-25 1st 9 Weeks Calendar - IPC

<b>Week 1 Objective (8/19-8/23)</b>
<p><b>-Establish expectations and demonstrate safe practices during laboratory investigations.</b></p> <p><b>-I will identify, locate and list all of the safety equipment in the lab during a scavenger hunt. I will then sign the NISD safety contract.</b></p> <p><b>-I will define, compare, and identify examples of accuracy and precision.</b></p>

<b>(Aug 19)</b>	20 Expectations - Rotation activity + Growth mindset	21 Safety- draw lab QR codes scenarios	22 Accuracy/ Precision Lecture	23 Accuracy/ Precision <b>Lab (grade)</b>
1st Day - Get to know activity		Give Review and Pre Assessment	Lunch PLC	
No Grade ▾	No Grade ▾	Formative ▾	No Grade ▾	Lab ▾

<b>Week 2 Objective (8/26-8/30)</b>
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<p><b>-I will compare customary units to the metric system. I will learn to convert measurements in the metric system.</b></p> <p><b>I will demonstrate mastery on the Unit 0 exam by locating safety equipment in the lab, converting metric units, and identifying examples of accuracy and precision.</b></p>
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26	27	28	29	30
Metric Notes and Practice  KING HENRY DOES USUALLY DRINK CHOCOLATE MILK	POUNDS, MILE, INCHES, METERS	LAB: The metric olympics	Test review	Test: Unit 0
No Grade ▾	No Grade ▾	Lab ▾	No Grade ▾	Test ▾

<b>Weeks 3 9/2-9/12 objective Motion</b>
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<p><b>TEKS: 4(A),4(B), 4(E)</b></p> <p><b>The student knows concepts of force and motion evident in everyday life. The student is</b></p>
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<p>expected to:</p> <p>(A) describe and calculate an object's motion in terms of position, displacement, speed, and acceleration.</p> <p>(B) measure and graph distance and speed as a function of time.</p> <p>(E) explain the concept of conservation of momentum using action and reaction forces.</p>				
Sept. 2	3	4	5	6
No School	Intro to motion Distance Motion Lab	Speed/velocity calculations	Speed/velocity calculations	Intro to graphs: Vocab and setup
No Grade ▾	Lab ▾	No Grade ▾	Formative ▾	No Grade ▾
9	10	11	12	13
Graphing Motion  Interpreting Graphs Enrichment Rotations	Graphing Stories  Enrichment Rotations	Motion Review  Lunch PLC  Enrichment Rotations	Motion Test  Give Review and Pre Assessment  Enrichment Rotations	Enrichment:  Motion Vocab activity
<p><b>Weeks 4 9/16-10/2 objective Forces</b></p>				
<p>TEKS: 4(C),4(D), 4(F)</p> <p>(C) investigate how an object's motion changes only when a net force is applied.</p> <p>(D) describe and calculate the relationship between force, mass and acceleration.</p> <p>(F) describe the gravitational attraction between objects of different masses at different distances.</p>				
16	17	18	19	20
Intro to force  5 types of forces cut and paste foldable	Balanced and unbalanced forces  Notes and practice	LAB:  Balanced and unbalanced forces	Intro to Newton's laws	Enrichment:  Laws/ forces Vocab.
No Grade ▾	Formative ▾	Lab ▾	No Grade ▾	No Grade ▾

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23 Newtons 1st law	24 Newtons 2nd law	25 Newton's 2nd law calculations  Practice	26 Newton's 3rd law	27 Enrichment: Newton's Three laws of motion Stations
Lab ▾	Lab ▾	Formative ▾	No Grade ▾	No Grade ▾
30 Lab: Balloon rocket	Oct. 1 Unit 2 Test REVIEW	2 Unit 2 Test	3 Intro to KE and PE energy	4 Enrichment: Energy Vocabulary activity
Lab ▾	Formative ▾	Test ▾	No Grade ▾	No Grade ▾
7 Potential Energy and Intro Conservation of Energy	8 Gravitational Potential Energy Definition and Calculations	9 Gravitational Potential Energy Calculations	10 LAB: Potential Energy	11) Intro Kinetic Energy
No Grade ▾	Formative ▾	Formative ▾	Lab ▾	No Grade ▾
<b>Week 5 10/10-10/08 objective Energy</b>				
<p><b>TEKS: 5(A),5(B), 5(D)</b></p> <p><b>(A) recognize and demonstrate that objects and substances in motion have kinetic energy such as vibration of atoms.</b></p> <p><b>(B) recognize and demonstrate common forms of potential energy, including gravitational, elastic, and chemical.</b></p> <p><b>(D)- investigate the law of conservation of energy.</b></p>				

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14)  Holiday	15  LAB: Conservation of Energy  (grade)	16  Kinetic Energy Calculations  End of Cycle	17  Kinetic Energy Calculations  End of Cycle	18  Enrichment: KE and PE
No Grade ▾	Lab ▾	No Grade ▾	Formative ▾	No Grade ▾
21  Intro to energy transformants	22  Energy Transformation Rotations	23  Energy Transformation Lab (grade)	24  Energy Transformation challenge card Identifying energy	25  Enrichment: Energy
No Grade ▾	Formative ▾	Lab ▾	No Grade ▾	No Grade ▾
<b>Week 6 10/10-10/25 objective</b> <b>Thermal Energy</b>				
<b>TEKS: 5(A),5(E)</b> <b>(A) recognize and demonstrate that objects and substances in motion have kinetic energy such as vibration of atoms.</b> <b>(E) investigate and demonstrate the movement of thermal energy through solids, liquids and gasses by convection, conduction, and radiation such as in weather, living and mechanical systems.</b>				
27  Unit 3 test review (grade)	28  Test: unit 3 Energy	29  Intro to Thermal Energy (Heat v Temp)	30  LAB: Thermal energy	31  Root monster project

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No Grade ▾	Test ▾	No Grade ▾	Lab ▾	Formative ▾
Nov. 4  Student Holiday	5  Enrichment: Thermal energy	6  Conduction, Convection, Radiation Notes	7  Conduction, Convection, Radiation Task Cards	8  Insulator and conductor notes Episode 5 Heat Transfer: Convection, Conduction and Radiation
No Grade ▾	Formative ▾	No Grade ▾	Lab ▾	No Grade ▾
11  Unit 4 Review	12  Unit 4 test	13  Intro to Electricity and Magnetism	14  Lab: Magnets	15  Enrichment: magnets vocab
No Grade ▾	Test ▾	No Grade ▾	Lab ▾	No Grade ▾
<b>Week 7 10/10-10/25 objective Electricity and Magnetism</b>				
<p><b>TEKS: 4(G),5(C), 5(F)</b>  <b>(G) examine electrical force as a universal force between any two charged objects</b>  <b>(C) demonstrate that moving electrical charges produce magnetic forces and moving magnets produce electric forces.</b>  <b>(F) evaluate the transfer of the electrical energy in series and parallel circuits and conductive materials.</b></p>				
18  Electromagnet Notes	19  Magnetism Snap LAB	20  Bill Nye: Electricity	21  Intro to circuits	22  Enrichment:  Circuit vocab

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No Grade ▾	Lab ▾	Formative ▾	No Grade ▾	No Grade ▾
25	26	27	28	29
<b>NO SCHOOL</b>	<b>NO SCHOOL</b>	<b>NO SCHOOL</b>	<b>NO SCHOOL</b>	<b>NO SCHOOL</b>