


Understandings/Focus Questions	Content	Skills/Standards	Assessment	Differentiation
<p>What technique will be used by students to analyze data and deduce significance from the data using statistical methods such as standard deviation?</p>	<ol style="list-style-type: none"> 1. Analysis of data - Discussion 2. Writing analysis and results 3. Examining results section 4. Tables and graphs 5. Statistical analysis 6. Writing the results section 	<p>1. Analysis of data - Discussion</p> <ul style="list-style-type: none"> • Why should statistical analysis be viewed as a tool for researchers? • Define meta-analysis • How does meta-analysis help clarify research results? <p>2. Writing analysis and results</p> <ul style="list-style-type: none"> • Students will be given supplemental materials to write the analysis and results section <p>3. Examining results section</p> <ul style="list-style-type: none"> • Students will analyze the results section of one of their articles used 	<p>Products</p> <ul style="list-style-type: none"> • Log/journal • Rough Draft of Typed Results Section in APA Format <p>Student Self-Assessment</p> <ul style="list-style-type: none"> • Bell Ringers • Discussion (whole-class or small group) • Self-evaluation • Peer-evaluation 	<ul style="list-style-type: none"> • Use small groups or individual learning • Peer tutoring • Organize content delivery in different ways • Use guided or teacher notes • Cue students to remain on task • Give directions in simplified language • Use flowcharts and graphic organizers • Allow movement to increase physical comfort • Provide correctives measures to ensure mastery of material

		<p>in their literature review</p> <p>4. Tables and graphs</p> <ul style="list-style-type: none"> Students will generate tables and graphs to display their results <p>5. Statistical analysis</p> <ul style="list-style-type: none"> Students will determine the standard deviation or use another statistical tool to determine the significance of their data <p>6. Writing the results section - Scaffold</p> <ul style="list-style-type: none"> Students will use a teacher generated template to write their results section <p>RI.11-CCR.1 RI.11-CCR.2</p>		
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Unit VIII: Data Collection & Analysis Using Statistics


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What technique will be used by students to analyze data and deduce significance from the data using statistical methods such as standard deviation?	Continue analyzing and writing the results section	Continue analyzing and writing the results section <ul style="list-style-type: none"> Examining results section The use of tables and graphs to display results Statistical analysis of 	Products <ul style="list-style-type: none"> Log/journal Typed Results Section in APA Format Student Self-Assessment	<ul style="list-style-type: none"> Use small groups or individual learning Peer tutoring Organize content delivery in different ways Use guided or teacher notes

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		<p>the data</p> <ul style="list-style-type: none"> • Writing the results section - Scaffold <p>RI.11-CCR.1 RI.11-CCR.2 RI.11-CCR.3 RI.11-CCR.4 RI.11-CCR.5 RI.11-CCR.6 RI.11-CCR.7 RI.11-CCR.10 W.11-CCR.2 W.11-CCR.3 W.11-CCR.4 W.11-CCR.5 W.11-CCR.6 W.11-CCR.7 W.11-CCR.8 W.11-CCR.9 W.11-CCR.10 SL.11-CCR.1 SL.11-CCR.2 SL.11-CCR.4 SL.11-CCR.6 L.11-12.1 L.11-12.2 L.11-12.4 L.11-12.6</p> <p>Next Gen Engineering Technology, & Application of Science</p> <p>CC.9-12.S.ID.1 CC.9-12.S.ID.2 CC.9-12.S.ID.3 CC.9-12.S.ID.4 CC.9-12.S.ID.6</p>	<ul style="list-style-type: none"> • Bell Ringers • Discussion (whole-class or small group) • Self-evaluation • Peer-evaluation 	<ul style="list-style-type: none"> • Cue students to remain on task • Give directions in simplified language • Use flowcharts and graphic organizers • Allow movement to increase physical comfort • Provide correctives measures to ensure mastery of material

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		CC.9-12.S.ID.6a CC.9-12.S.ID.6c CC.9-12.S.ID.7 CC.9-12.S.ID.8 CC.9-12.S.ID.9 CC.9-12.S.IC.1 CC.9-12.S.IC.3 CC.9-12.S.IC.5 CC.9-12.S.IC.6		

Unit VIII: Data Collection & Analysis Using Statistics

Understandings/Focus Questions	Content	Skills/Standards	Assessment	Differentiation
<p>What technique will be used by students to analyze data and deduce significance from the data using statistical methods such as standard deviation?</p>	<p>1. Discussion/Conclusion 2. Writing abstracts</p>	<p>1. Discussion/Conclusion</p> <ul style="list-style-type: none"> Supplemental material on writing discussion/conclusion section Writing discussion and conclusion section - Prompts <p>2. Writing abstracts</p> <ul style="list-style-type: none"> Supplemental material on writing abstracts Writing abstracts - Scaffold <p>RI.11-CCR.1 RI.11-CCR.2 RI.11-CCR.3 RI.11-CCR.4 RI.11-CCR.5 RI.11-CCR.6 RI.11-CCR.7 RI.11-CCR.10 W.11-CCR.2 W.11-CCR.3 W.11-CCR.4 W.11-CCR.5 W.11-CCR.6 W.11-CCR.7 W.11-CCR.8 W.11-CCR.9</p>	<p>Products</p> <ul style="list-style-type: none"> Log/journal Typed Results Section in APA Format Type Discussion/Conclusion Section in APA Format Typed Abstract in APA Format <p>Student Self-Assessment</p> <ul style="list-style-type: none"> Bell Ringers Discussion (whole-class or small group) Self-evaluation Peer-evaluation\ 	<ul style="list-style-type: none"> Use small groups or individual learning Peer tutoring Organize content delivery in different ways Use guided or teacher notes Cue students to remain on task Give directions in simplified language Use flowcharts and graphic organizers Allow movement to increase physical comfort Provide correctives measures to ensure mastery of material

Understandings/Focus Questions	Content	Skills/Standards	Assessment	Differentiation
		<p>W.11-CCR.10 SL.11-CCR.1 SL.11-CCR.2 SL.11-CCR.4 SL.11-CCR.6 L.11-12.1 L.11-12.2 L.11-12.4 L.11-12.6</p> <p> Next Gen Engineering Technology, & Application of Science</p> <p>CC.9-12.S.ID.1 CC.9-12.S.ID.2 CC.9-12.S.ID.3 CC.9-12.S.ID.4 CC.9-12.S.ID.6 CC.9-12.S.ID.6a CC.9-12.S.ID.6c CC.9-12.S.ID.7 CC.9-12.S.ID.8 CC.9-12.S.ID.9 CC.9-12.S.IC.1 CC.9-12.S.IC.3 CC.9-12.S.IC.5 CC.9-12.S.IC.6</p>		