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High Impact Indicators

What makes indicators "High Impact"?

- Important skills that are widely applicable
- May currently receive coverage during GED[®] test preparation



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High Impact Indicators

How GEDTS identified these indicators

- Extensively analyzed test-taker performance on the operational GED[®] test
- Examined differences in performance between the 140 – 149 and 150 – 159 scaled scores in each content area
- Subjected the results to the filters indicated above





















Goonen & Pittman





























Explore		
What the teacher does	What the student does	
 Encourages the students to work together without direct instruction from the teacher. Observes and listens to the students as they interact. Asks probing questions to redirect the students' investigations when necessary. Provides time for students to puzzle through problems. 	 Thinks freely but within the limits of the activity. Tests predictions and hypotheses. Forms new predictions and hypotheses. Tries alternatives and discusses them with others. Records observations and ideas. Suspends judgement. 	

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Explore - Gravity and Air Resistance Analyzing Data				
 How does air resistance affect the acceleration of falling objects? 				
Effects of Air Resistance				
Paper Type	Time			
Flat paper				
Loosely crumpled paper				
Tightly crumpled paper				
Your paper design				
34	Guide - pp. 6 & 9			



Explain Guide – p. 6		
What the teacher does	What the student does	
 Encourages the students to explain concepts and definitions in their own words. Asks for justification (evidence) and clarification from students. Formally provides definitions, explanations, and new labels. Uses students' previous experiences as basis for explaining concepts. 	 Explains possible solutions or answers to others. Listens officially to others' explanations. Questions others' explanations. Listens to and tries to comprehend explanations the teacher offers. Refers to previous activities. Uses recorded observations in explanations. 	



Exploin Exploin Exploin - 1666 Newton's Three Laws of Motion Every object in a state of uniform motion tends to remain in that state of motion unless an external force is applied to it. The relationship between an object's mass *m*, its acceleration *a*, and the applied force *F* is *F* = *ma*.

• For every action there is an equal and opposite reaction.

Best Idea Ever! https://youtu.be/jwPc0kK9VHU













Elaborate (extend) What the teacher does What the student does • Expects the students to use formal labels, definitions, and explanations provided previously. • Applies new labels, definitions, explanations, and skills in new, but similar situations. • Encourages the students to apply or extend the concepts and skills in new situations. • Mat the student sto apply or extend the concepts and skills in new situations. • Reminds the students of alternative explanations. • Draws reasonable conclusions from evidence. • Refers the students to existing data and evidence and asks, What do you already know? • Checks for understandings	Elaborate			
What the teacher does What the student does • Expects the students to use formal labels, definitions, and explanations provided previously. • Applies new labels, definitions, explanations, and skills in new, but similar situations. • Encourages the students to apply or extend the concepts and skills in new situations. • Uses previous information to ask questions, propose solutions, make decisions, and design experiments. • Refers the students to existing data and evidence and asks, What do you ulready know? • Draws reasonable conclusions and explanations. • Records observations and explanations. • Records observations and explanations.	Elaborate (extend)			
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Strategies from <i>Explore</i> apply among peers. here also.	 Expects the students to use formal labels, definitions, and explanations provided previously. Encourages the students to apply or extend the concepts and skills in new situations. Reminds the students of alternative explanations. Refers the students to existing data and evidence and asks, What do you already know? Why do you think? Strategies from <i>Explore</i> apply here also. 	 Applies new labels, definitions, explanations, and skills in new, but similar situations. Uses previous information to ask questions, propose solutions, make decisions, and design experiments. Draws reasonable conclusions from evidence. Records observations and explanations. Checks for understandings among peers. 		







i	pdae o	Evaluate	Evaluar BY EDUCATORS FOR EDUCATORS
Evaluate		late	Evaluate
•	What the teacher does What the student does • Observes the students as they apply new concepts and skills. • Answers open-ended questions by using observations, evidence, and previously accepted explanations. • Looks for evidence that the students have changed their thinking or behaviors. • Demonstrates an understanding or knowledge of the concept or skill. • Allows students to assess their own learning and group-process skills. • Asks open-ended questions, such as: Why do you think ? What do you know about x? How would you explain x?	 Provide an example of Newton's 2nd Law of Motion. Explain why it's a good example of the law. You may wish to draw a picture, develop a summary, or demonstrate it to the class. 	
		 How does the 2nd law of motion apply to everyday objects? 	



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Explor

- Read an article that has the pros and cons of using antibiotics for health issues such as colds and respiratory infections. Example: Antibiotics: Understanding the Pros and Cons http://www.huffingtonpost.com/dr-caranatterson/antibiotic-drugs_b_784324.html
- Compare the two sides. Construct an argument for or against prescribing antibiotics using evidence from the article.





- Define vocabulary terms such as synthesis, natural selection, mutations
- Identify the cause and effect of overuse of antibiotics
- Predict what you think will happen if a person takes the same antibiotic six times in one year



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ipdae of	Short Answer Type 1			
What's the Evidence?				
Table	Article			
Wind no ongoing fuel costs zero CO² emissions visible, noise factor (may harm birds) Coal high CO² emissions ongoing fuel costs, Impacts our environment – strip mining, mercury contamination non-renewable fuel source 	Coal will last ~ 100 more years Fossil fuel burned to create energy negative environmental impacts Renewable energy (like wind) expected to increase in use			
60 2015 The institute for the Portainand Development of Add Education				





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nort Answer Type

Wind energy is better because it has zero emissions has no ongoing fuels cost. Coal is nonrenewable so one can be able to save coal only when needed plus coal mining is toxic to the environment.



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Short Answer Type 2

The farmer would have to set up 3 experiments. The first would be a years worth of traditional farming methods (plowing and no cover crop) on 5 x 5 acres of land. He would have to measure the top soil in every month throughout the year and record it in a data table. For the second experiment the farmer would have to farm a plot of land 5x5 acres using a no-till plan. He would have to measure the top soil every month for a year and record it in a data table. Finally the farmer would farm a 5x5 acres of land with winter cover crop and measure the top soil every month and record it in a lab table. At the end of the year the farmer would have to compare the 2 methods agaisnt the traditional methid and determine if he is correct

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Short Answer Type 2

The farmer could separate the land into two sections (15 acres each), and use one method on each section over a two season period. Over the two season period he would record how much soil was left after using each method, comparing the results to each other and the traditional farming method.



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Short Answer Type

To test his hypothesis the farmer should divide his land into three equal parts one for the first method, one for the second method and one for the controle group. In the first part he divided he should test method one and keep a record of the process and the results. In the second part he divided he should test the second method and keep a record of the process and the results. In the third part that he divided he should have the controle group where he would use the traditional method keep a record of tre process and the results, then compare the records he has collected identify the different results, make an annalasys and decide which method is the best way to prevent soil erosion.

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Tips for Short Answer

Tip 1: Experimental Design

- · Identify the controlled variable in any experimental design.
- Tip 2: Reasoning and Evidence
- · Justify reasoning when citing evidence.
- Fully explain choices of particular pieces of evidence.

Tip 3: Specificity

- Responses should be specific to context provided in the item.
- Explaining relevant, generalizable scientific concepts is good, but explanations should be tied to the information provided.

