Design a lab around this

# Title

Name: _____

Period: _____

Essential Question

Do you believe that what you get out of something depends on what you put into it?

would be a great cross-curricular w/ Am. Themes or sociology music

Your task is to tell me why Archimedes was correct when he said the following quote below. Your answer should discuss the topic associated with Work input = Work output. Your answer should also use the words fulcrum, lever, force applied, force exerted, distance applied, and distance exerted.

Set up to the task? Discussion first?

Hint: Work = Force X Distance

Hint: Mass of the Earth - $5.9742 \times 10^{24}$ kilograms

"Tell me why"
"Use the words"

*Give me a lever long enough and a fulcrum on which to place it, and I shall move the world.*

maybe word bank w/ def. ?

-Archimedes

Use the rest of the paper to answer this question……NEATNESS will be taken into consideration when grading!!!

*DIAGRAMS

can draw pictures, too

*- Is that in directions?

pre-assessment + post-assessment

Scientific info.

Strong on critical thinking but little info to go on

2

CK

Can ask questions that Gordon answers for all

Individual work

ESC

1+

VBS

Clarification

Force

Lever | Simple machine

Focus on CK *

Open to VBS

discussion element?

more of an essential question than a pre-assessment?

like the critical thinking a lot

not sure if there's enough scientific info. to work w/

why he was correct

2+

*"brief declarations"

supporting assertion - like expressing conclusions

"move the world"

Once they have concepts, you could apply idea of leverage to problem-solving locally + in world

could lead to that but only accidentally unless you structure

create a title for the task

Anal retentive suggestions.

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wording needs revision... slightly confusing to me.

explain

Your task is to tell me why Archimedes was correct when he said the following quote below. Your answer should discuss the topic associated with Work input = Work output. Your answer should also use the words "fulcrum," "lever," "force applied," "force exerted," distance applied, and distance exerted."

about

Is there a stronger way to say this.

I would be trying to solve an equation. W=F+D how do I use these?

Hint: Work = Force X Distance

Hint: Mass of the Earth - $5.9742 \times 10^{24}$ kilograms

***Give me a lever long enough and a fulcrum on which to place it, and I shall move the world.***

-Archimedes

clarify...

revise format...

Use the rest of the paper to answer this question.....NEATNESS will be taken into consideration when grading!!!

Tell to write or draw?...

Bigger suggestions

★ Write paragraph -or- draw comic w/ bubbles explaining.

★ Would you change the quote? - or write your own to describe the theory...

Leads into a problem-solving lab - perhaps?

Dominant - interpret... some org./analysis... evaluate...

reproducing by using input from teacher on descriptors... ???

CK 3-

EC 3- 2+

VBS 2 - quote is beyond school... - but not solving true problem?

ask for explanation?

based on your ~~xxx~~ prior knowledge

Name: _____ make if he was correct then through unit they learn

Period: _____ explain? interpret? question

no directions as to write-paragraph draw?

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but does not have to?

can they look these up?

maybe leave this out of pre-test & let them work on them during unit & then have they use content vocabulary on post test?

Hint: Work = Force X Distance

Hint: Mass of the Earth - $5.9742 \times 10^{24}$ kilograms

allow students ask questions during pre-test

analyze

***Give me a lever long enough and a fulcrum on which to place it, and I shall move the world.*** - analyse quote

-Archimedes

more guidelines

draw picture or write

Use the rest of the paper to answer this question.....NEATNESS will be taken into consideration when grading!!!

* used last year - pre-test - ~~just~~ & post-test post test?

grade on completion - go over - & ask for thoughts -

* continue - make more clear to students. - Beef it up.

Key Concept

How does a simple machine work.

+ lever.

* whole task

Construction of knowledge.

VBS

- 2 page prose

| CofK | E&C | VBS |
|---|---|---|
| 3 | 2+? | 2? |

does not ask them to support?

does ask them to express conclusion

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Your task is to explain me why Archimedes was correct when he said the following quote below. Your answer should discuss the topic associated with Work input = Work output. Your answer should also use the words fulcrum, lever, force applied, force exerted, distance applied, and distance exerted.

take these out or word bank!

Hint: Work = Force X Distance

Hint: Mass of the Earth - $5.9742 \times 10^{24}$ kilograms

***Give me a lever long enough and a fulcrum on which to place it, and I shall move the world.***

-Archimedes

~~Use the rest of the paper to answer this question..... NEATNESS will be taken into consideration when grading!!!~~

Standard 1: 2 CoK is not fully expecting the students to organize, interpret or synthesize information

Table

- I should probably have a data table that shows increasing force, decreasing distance or vice versa.

Standard 2: 2 ESC is not a full elaboration of problems or procedures but they are able to illustrate or express conclusions on laws or concepts

Standard 3: 2+ This can be applied to the real world but they are not asked to construct or make that question/statement known.

Interpret the data