

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?
could be a great cross-curricular w/ Am. Themes on 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.

Hint: Work = Force X Distance

Hint: Mass of the Earth - 5.9742×10^{24} kilograms

Set up to the task?
Discussion first?

"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!!!

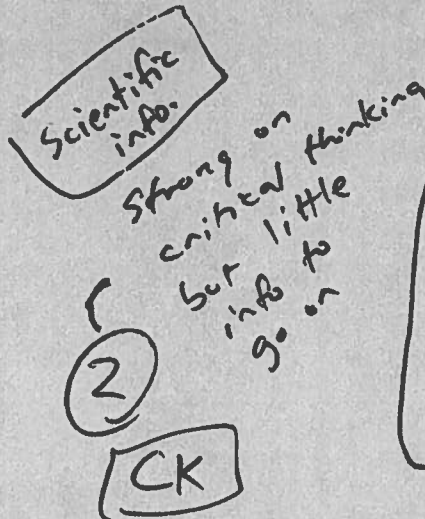
*DIAGRAMS

Can draw pictures, too

*- Is that in directions?

Can ask questions that Gordon answers for all
Individual work

pre-assessment + post-assessment



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 2 title for the task

Name: _____
Period: _____

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."

Hint: Work = Force X Distance

Hint: Mass of the Earth - 5.9742×10^{24} kilograms

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

-Archimedes

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Tell to write or draw? ...

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

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

Leads into 2 problem-solving lab - perhaps?

Dominant - interpret ...
Some org./analysis...
reproducing by using input from teacher on descriptors...
evaluate ...

CK
3-

EC
3- (2+)

VBS
2

↑ ask for explanation?
- quote is beyond school...
- but not solving true problem?

explain

wording needs revision... slightly confusing to me.

Another retentive suggestions.

Is there a stronger way to say this?

- I should be trying to solve an equation.
 $W = F \times D$ how do I use these?

clarify...

revise format...

Bigger suggestions

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based on your prior knowledge

explain? interpret?

make if he was correct then they learn

no directions as to write paragraph draw?

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.

but does not have to?

Can they look these up? maybe leave this out of pre-test & let them work on them during unit &

Hint: Work = Force X Distance
Hint: Mass of the Earth - 5.9742×10^{24} kilograms

Followed dumb questions Pre-test

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

analyze

- analyze quote

then have them use

-Archimedes

more guidelines

draw picture or write

content vocabulary

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

* used last year - pre-test - ~~post~~ & 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.

level.

CofK	E&C	VBS
3	2+?	2?

does not ask them to support?

does ask them to express conclusion

* whole task Construction of knowledge.

-2 page prose

[Faint, illegible handwriting at the top of the page, possibly including a title or introductory text.]

[Faint, illegible handwriting in the middle section of the page.]

[Faint, illegible handwriting at the bottom of the page, possibly including a conclusion or signature.]

Title _____

Name: _____

Period: _____

^{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. ~~My answer~~ Your answer should also use the words fulcrum, lever, force applied, force exerted, distance applied, and distance exerted.

Hint: Work = Force X Distance

Hint: Mass of the Earth - 5.9742×10^{24} kilograms

take these out of word bank!

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

