

ASU: SOW1 - Application Wireframes

VERSION 10

Created on: Apr 27, 2009 10:47 AM by Mike W – Last Modified: Apr 28, 2009 8:40 AM by Mike W

Note on Wireframes: These are for establishing layout and functionality only. Colors, sizes, and fonts should not be considered. Different features from different images could be mixed and matched.

Note on canvas scrolling: All Wireframes show scroll-bars for the canvas (workspace). Only the canvas would scroll – menu area, toolbar nor the help window would scroll with it. Scrollbars would only show if there is content to scroll to – otherwise they would be hidden. Scrollbars are show here mainly to indicate the canvas area.

Note the use of both WebAssign in the menu and an alternative usage of a HOME tool button, as a way for the student to post results. It had been suggested that the "back" button be used to return to WebAssign, but not only would that possibly not work, it's not proper usability. You need some sort of "next" button when youre finished.

Wireframe #1

A horizontal toolbar does have merit if its height is kept short enough. The reason horizontal looks preferred is because of the persistent zoom slider.

The Andes logo is a placeholder for an actual logo. This may or may not be desired.

Help Window a draggable, collapsable dialog

WebAssign File Edit Preferences Physics

score: 33%

A spherical ball with a mass of 2.00 kg rests in the notch shown below. If there is no friction between the ball and the walls, what is the magnitude of the force exerted on the ball by wall1?

free body diagram

$m=2 \text{ kg}$ is mass of ball

F_g is force of gravity

F_1 normal force on ball

$F_{g,y} = -m \cdot g$

HELP

What is the first principle application that you would like to work on? Hint: this principle application will usually be one that mentions the sought quantity explicitly. Therefore its equation may contain the sought quantity that the problem seeks.

Explain Further

Now that you have stated all of the given information, you should start on the major principles. What quantity is the problem seeking?

Explain Further

Help _

Wireframe #2

This one uses both horizontal and vertical elements. Score and logo would stand out more.

WebAssign File Edit Preferences Physics

score: 33%

A spherical ball with a mass of 2.00 kg rests in the notch shown below. If there is no friction between the ball and the walls, what is the magnitude of the force exerted on the ball by wall 1?

Answer

The diagram shows a grey spherical ball resting in a V-shaped notch. The left wall is labeled 'wall2' and the right wall is labeled 'wall1'. The angle between the walls is indicated as 50 deg on the left and 30 deg on the right. Above the ball, a free body diagram is shown with a circle labeled 'ball'. Three force vectors originate from the center of the ball: F_1 pointing up and to the left, F_g pointing straight down, and F_2 pointing up and to the right. To the right of the free body diagram, there are four text boxes: 'free body diagram', ' $m=2 \text{ kg}$ is mass of ball', ' F_g is force of gravity', and ' F_1 normal force on ball'. Below these, a box contains the equation ' $F_g = m \cdot g$ '.

HELP

What is the first principle application that you would like to work on? Hint: this principle application will usually be one that mentions the sought quantity explicitly. Therefore its equation may contain the sought quantity that the problem seeks.

Explain Further

Now that you have stated all of the given information, you should start on the major principles. What quantity is the problem seeking?

Explain Further

Help_

Wireframe #3

This wireframe regains the vertical space by moving the zoom to the toolbar and using a popup zoom slider, similar to volume controls seen in some Flash video players.

[WebAssign](#)
[File](#)
[Edit](#)
[Preferences](#)
[Physics](#)

score: **33%**

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A spherical ball with a mass of 2.00 kg rests in the notch shown below. If there is no friction between the ball and the walls, what is the magnitude of the force exerted on the ball by wall1?

Answer

free body diagram

$m = 2 \text{ kg}$ is mass of ball

F_g is force of gravity

F_1 normal force on ball

$F_g = -m \cdot g$

HELP

What is the first principle application that you would like to work on? Hint: this principle application will usually be one that mentions the sought quantity explicitly. Therefore its equation may contain the sought quantity that the problem seeks.

Explain Further

Now that you have stated all of the given information, you should start on the major principles. What quantity is the problem seeking?

Explain Further

Help_

Wireframe #4

Help is not a dialog here but a collapsable panel. It is always 100% in height. It can be resized horizontally. There is a button on the divider that when clicked, toggles it open and closed.

Note in the future other things could be stacked in this area with an Accordion widget – like the Score description.

Zoom slider pops open instead of being persistent, in order to save horizontal space. Although there is plenty of space, the attempt is to be as accommodating as reasonable for when the browser is resized.

Note: Score could be bigger here, to stand out more.

WebAssign File Edit Preferences Physics

score: 33%

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free body diagram

$m=2 \text{ kg}$ is mass of ball

F_g is force of gravity

F_1 normal force on ball

$F_g.y = -m \cdot g$

HELP

What is the first principle application that you would like to work on? Hint: this principle application will usually be one that mentions the sought quantity explicitly. Therefore its equation may contain the sought quantity that the problem seeks.

Explain Further

Now that you have stated all of the given information, you should start on the major principles. What quantity is the problem seeking?

Explain Further

Help_

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