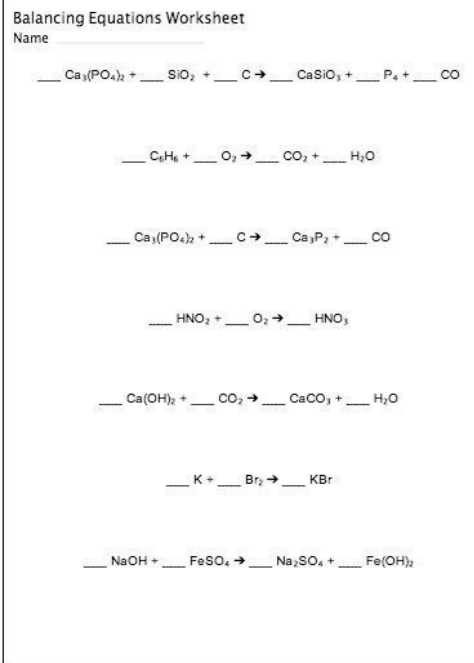


I'm not robot!



PhET: Balancing Act Activity Guide

INTERACTIVE SIMULATIONS
University of Colorado Boulder

Show

- Mass Labels
- Forces from Objects
- Level

Position

- None
- Rulers
- Marks

Bricks

- 5 kg
- 10 kg
- 15 kg
- 20 kg

Balancing Act

A virtual PhET Balancing Act. Tapes, Lenses, and Additional Equipment. All of equipment for that would.

Part One: Intro

- Click the "Intro" button.
- Click "Start" from the "Start" button.
- Drag the 5 kg brick from the left pan to the right pan.
- Click "Start" from the "Start" button.
- Click "Start" from the "Start" button.
- Click "Start" from the "Start" button.
- Click "Start" from the "Start" button.

Part Two: Balancing

Part Two: Balancing. Use the virtual PhET Balancing Act. Tapes, Lenses, and Additional Equipment. All of equipment for that would.

- Click the "Start" button for the "Start" button.
- Click the "Start" button for the "Start" button.

Part Three: The Game

Part Three: The Game. Use the virtual PhET Balancing Act. Tapes, Lenses, and Additional Equipment. All of equipment for that would.

Use this Activity Guide along with the [PhET: Balancing Act Simulation](https://phet.colorado.edu/en/simulation/balancing-act)
<https://phet.colorado.edu/en/simulation/balancing-act>

Team Work Balancing Act

Instructions: Write the number, equation and answer in the box below and have teacher check it. If your answer is correct then check the box and have your partner check it. If you do not balance the equation correctly, keep trying till you get it right.

Equations:

- 31
 $C_2H_6 + O_2 \rightarrow CO_2 + H_2O$
- 6
 $2H_2 + O_2 \rightarrow H_2O$
- 28
 $2H_2 + O_2 \rightarrow H_2O$
- 20
 $H_2 + O_2 \rightarrow H_2O$

NAME _____ DATE _____

UNIT 2 Speed and Velocity

Speed is a quantity that measures the distance an object travels in a given time interval.

$$\text{speed} = \frac{\text{distance}}{\text{time}} \quad v = \frac{d}{t}$$

Velocity is a vector that includes speed and direction.

- Answer the following questions about speed and velocity.
- A car is driving west on a highway at 25 m/s. What is the car's speed in km/h?

 - What is the car's velocity?

 - If the positive direction is defined as "toward the east," what is a mathematical expression of the car's velocity?

 - Suppose the polar bear were running on land instead of swimming. If the polar bear runs at an average speed of 8.3 m/s, how far does it travel in 10.0 hours? Express your answer in m and km.

 - A walrus can swim faster than a polar bear, but has less endurance. If a walrus swims at an average speed of 9.7 m/s, how far does the walrus swim in 3.4 minutes? Express your answer in m and km.

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