

**I'm not robot!**

98670396163 2837662.8076923 22615664.909091 41758101000 11309471.326316 70421135.428571 23702277.111111 17377433200 1831275.0888889 54886545150 43695139.05 28765217.042553 38175439800

Single Collision Many Collisions Rate Experiments

Initial Conditions  
Select a reaction:  
Initial temperature  
Cold Hot

Current Amounts  
Molecule counts: 9, 6, 0, 6  
Clear container

Options  
Chart Options: Bar, Pie, Strip, None  
Show bonds, Show stopwatch  
Reset All

**PHET**  
INTERACTIVE SIMULATIONS

### BUILD AN ATOM

**PART I: ATOM SCREEN**  
Build an Atom simulation (<http://phet.colorado.edu/en/simulation/build-an-atom>)

- Explore the *Build an Atom* simulation with your group. As you explore, talk about what you find.
- List two things your group observed in the simulation.
  - What particle(s) are found in the center of the atom?
- Play until you discover which **particle(s)** determine(s) the name of the **element** you build. What did you discover?
- What is the **name** of the following atoms?
  - An atom with 3 protons and 4 neutrons: \_\_\_\_\_
  - An atom with 2 protons and 4 neutrons: \_\_\_\_\_
  - An atom with 4 protons and 4 neutrons: \_\_\_\_\_
- Play with the simulation to discover which particles affect the **charge** of an atom or ion.
  - Fill in the blanks below to show your results:  
Neutral atoms have the same number of protons and electrons.  
Positive ions have \_\_\_\_\_ protons than electrons.  
Negative ions have \_\_\_\_\_ protons than electrons.
  - Develop a relationship (in the form of a single sentence or equation) that can predict the charge based on the number and types of particle.
- Play with the simulation to discover what affects the **mass** number of your atom or ion.
  - What is a rule for determining the mass number of an atom or ion?
- Practice applying your understanding by playing 1<sup>st</sup> and 2<sup>nd</sup> levels on the game screen.

**BUILD AN ATOM** 1

Worksheet content (blurred text):

1. What is the name of the element you build?

2. List two things your group observed in the simulation.

3. What particle(s) are found in the center of the atom?

4. What is the name of the following atoms?

5. Play with the simulation to discover which particles affect the charge of an atom or ion.

6. Play with the simulation to discover what affects the mass number of your atom or ion.

7. Practice applying your understanding by playing 1<sup>st</sup> and 2<sup>nd</sup> levels on the game screen.

PHET Interactive Simulations

Mass and Spring

Remove the dough of spring 2. Increase the constant of spring 2 (major, also known as make the spring more rigid). Put the dough of 100 g backwards in the second spring. Ke as spring bounces. b. When you place the mass of 100 g in the spring, describe what happens to the a. In addition, a 404 error was found when trying to use an Error document to handle the request. A mutual benefit for teachers and their students. Etotial As the spring bounces. It makes everything that falls EXCEPT Etherma \*Please note that we are ignoring Etherm for now 3. What happens when stiffness (constant) decreases? Peelas as spring bounces. d. I have done this activity with my students many times and they always find it fun and attractive. The PHET simulation can be found at this link. tes pays license, can I reuse this? Select general rating (no rating) Your rating is required to reflect your happiness. Leave a few comments. Something went wrong, try again later. This resource has not been reviewed andetto assures that the quality of our reviews, only customers who have purchased this resource can review ITReport This Resourceeto Let us know if it violates our terms and conditions. They must hang at the same level and move in a similar way. The simulation will guide students as they collect data, analyze the results and draw conclusions on what factors affect the period of a swing mass in a resort. Spring moves faster but it extends less 3. The spring moves slower, but it's getting harder. :ebuTuoY :ebuTuoY ed lanac led saicneiC .1 onugnina n'Aicaugitroma al aczelbatsE :aAgrenE enoicceles ,roirefni etrap Harmonic Motion, What Effects Does a Mass Period Have in a Spring?: This research-based laboratory activity uses the Mass and Spring: PhET Interactive Simulations Basic HTML5 Simulations. Apache/2.4.41 (Ubuntu) m.central.edu Server 443 The presentation of videos from my YouTube channel, Step-by-Step Science, with teaching and learning resources geared towards results. Remove the second mass, make the small value for Spring Constant 2, and place the dough again in. Simulation can be executed from most cell phones, tablets and computers. Draw the GRAPH ENERGY BAR diagrams when the mass is in the identified positions 2. Remove the dough, make the RESTA 1 Smooth CONSTANT and place the dough again. The best thing is that your students won't even know they're learning while completing the lab mapping sheet that is included. All PhET simulations are available on your website: This product includes lab worksheets and the answer key, as well as a Beginning Teacher Guide. PHET simulations incorporate research-based activities, focused on students who are fun and easy to use. What happens when the stiffness (continuity) of spring 2 is increased? Links to relevant YouTube videos are given on each worksheet. Last Updated May 19, 2022 This product from my The Tes store will help your students fully understand how the breadth, the mass, the gravity and the spring force affect the period of a mass oscillating in a spring. Energies at the highest point (without stretching) Energies at the lowest point (total length)The requested URL was not found on this server. PEGrav as spring bounce: Up c. Masses and Name Linh Date 11/20/2021 Google á € cefet and springá € Select Enter 1. Put a mass of 100 g in the first and second spring. Teaching physical, chemical and mathematics in Germany of the United States for more than 20 years. Mi mi Channel, science step by step, has hundreds of excellent videos of physics, chemistry and mathematics. Our customer service team will review your report and contact you. Nothing to download or install. Install on pc.

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