

Student Exploration: Roller Coaster Physics

Vocabulary: friction, gravitational potential energy, kinetic energy, conservation



Draw Knowledge Questions (the three BIG ONEs) using the Gizmo. (Each gets one free roller coaster run, with maximum velocity.) Note: Most Coaster tracks as they are usually given up the first loop, then down.

1. What happens at the beginning of every roller coaster ride?
The car is pushed up to being full.

2. Describe roller coaster track going faster than the first loop? No.

Answer:

The roller coaster track is higher than the first loop because the total energy of the roller coaster doesn't increase during the ride.

Warm Up

The Roller Coaster Physics Gizmo models a roller coaster with a toy car on a track that leads to an egg. The main design rule is to get the car off the first loop. Use the default settings (mass = 100 kg, track 2 = 10 cm, height 2 = 10 cm, 100 g egg).

1. Click Play. → The 100-g toy car drops the track. Does the car break the egg? No

2. Click Reset. → → Set Height 2 to 20 cm, and click Play. Does the car break the egg? Yes

3. Click Reset. Lower Height 2 back to 10 cm and speed the 100-g toy car. Click Play. Does the 100-g toy car break the egg? Yes



Roller Coaster Physics Exploration Sheet Answer Key

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web k sp of calcium hydroxide 1 author j m mccormick last update october 13 2013 introduction an equilibrium constant k is related to ΔG for a process through eqn 1 and as long as ΔH and ΔS are independent of temperature eqn 1 can be combined with eqn 2 to determine ΔH and ΔS from the temperature dependence of k

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web your primary objective in this experiment is to test a saturated solution of calcium hydroxide and use your observations and measurements to calculate the ksp of the compound you will do this by titrating the prepared Ca(OH)_2 solution with a

standard hydrochloric acid solution

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web in today's experiment you will determine the solubility product K_{sp} of calcium hydroxide Ca(OH)_2 by measuring the concentration of Ca(OH)_2 in a saturated solution calcium hydroxide is a sparingly soluble salt that dissolves according to the following reaction the solubility product expression for this reaction is

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web expert verified chem 182 determining the K_{sp} of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water a saturated aqueous solution of Ca(OH)_2 is represented in equation form as shown below $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$ the solubility product expression describes in mathematical terms the equilibrium

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web K_{sp} for calcium hydroxide calcium hydroxide is a soft white caustic powder used in making mortar cements calcium salts paints and petrochemicals it is also used in saltwater aquaria to make up kalkwasser limewater solutions for reef tanks and is used as a pH regulating agent notice that calcium hydroxide is divalent and thus has twice

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web use the concentration of calcium hydroxide to calculate the concentration of calcium ions and hydroxide ions in the solution $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$ $5 \times 10^{-2} \text{ M}$ calcium ions $5 \times 10^{-2} \text{ M}$ hydroxide ions calculate calcium hydroxide K_{sp} using the concentrations of calcium ions and hydroxide ions

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web madison bowe elana keller april 15 2014 introduction the objective of this lab was to measure the K_{sp} of a slightly soluble basic salt and how solubility changes with temperature K_{sp} is another form of equilibrium expression that deals with solubility the reaction that will take place is $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$

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web question experiment 8 determining K_{sp} for calcium hydroxide post lab report sheet data table 2 points trial 1 trial 2 HCl molarity 0.050 M volume of filtered Ca(OH)_2 solution mL 5.00 5.00 3.71 13.75 equivalence point volume mL OH^- in saturated Ca(OH)_2 M Ca^{2+} in saturated Ca(OH)_2 M K_{sp} of Ca(OH)_2 average K_{sp} of Ca(OH)_2

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web the chemical equation used was $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$ the solubility product was determined to be $K_{sp} \text{Ca(OH)}_2$ from the titration which was made by dripping a concentrated solution of calcium hydroxide into hydrochloric acid the calcium hydroxide was filtered before starting the titration

18.1 solubility product constant K_{sp} chemistry libretexts - Feb 01 2023

web jul 12 2023 because the concentration of a pure solid such as $\text{Ca}_3(\text{PO}_4)_2$ is a constant it does not appear explicitly in the equilibrium constant expression the equilibrium constant expression for the dissolution of calcium phosphate is therefore $K_{\text{sp}} = [\text{Ca}^{2+}]^3 [\text{PO}_4^{3-}]^2$

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web lab report 8 determining of calcium hydroxide the purpose of this was to titrate a saturated $\text{Ca}(\text{OH})_2$ solution with a standard HCl solution and find the K_{sp} or the OH^- concentration was found and then the concentration was found and used for this experiment a titration of calcium hydroxide with hydrochloric

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web question determining the ksp of calcium hydroxide $\text{Ca}(\text{OH})_2 \rightleftharpoons \text{Ca}^{2+}(\text{aq}) + 2\text{OH}^-(\text{aq})$ for this experiment the titration of calcium hydroxide with hydrochloric acid was investigated determining the ksp of calcium hydroxide $\text{Ca}(\text{OH})_2 \rightleftharpoons \text{Ca}^{2+}(\text{aq}) + 2\text{OH}^-(\text{aq})$ for this experiment the titration of calcium

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web question chem 182 experiment 8 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water solution of $\text{Ca}(\text{OH})_2$ is represented in equation form solution of calcium hydroxide is an ionic solid that is sparingly soluble in water a saturated aqueous as shown below

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web therefore it was determined through error calculations and ease of use that the most reliable valid method to use to get the closest K_{sp} value to the theoretical K_{sp} for $\text{Ca}(\text{OH})_2$ was the determination through pH method 2 introduction calcium hydroxide is a strong base soluble in water

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concentrations in solution

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