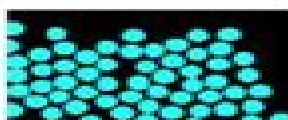


## PhET Interactive Simulation: States of Matter

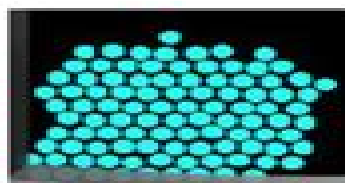
[Click Here for the States of Matter Simulation](#), practice then answer the questions below:  
(Be sure to download the simulation before starting).

### Exploration

1. Identify the following as either a solid, liquid, or a gas.



a) liquid



b) solid



c) gas

2. a) What happens to the atoms of a solid when the temperature increases?  
b) decreases? *When the temp increases in a solid the atoms start to spread out, when the temp decreases the atoms get more and more compact.*
3. What happens to the atoms of a solid when the temperature decreases?  
*The atoms get more and more compact.*
4. Complete the following table for the initial temperature of each substance in each state:

	Solid	Liquid	Gas
Neon	-295 c	-246 c	-217 c
Argon	-230 c	-187 c	-84 c
Oxygen	-246 c	-216 c	-160 c
Water	-127 c	13 c	156 c

5. Use the table above to compare any two (2) of the gases. How do their initial temperatures compare at each physical state?  
*When neon gets very cold it becomes a gas as you can see from the chart, but when water gets very hot it becomes a gas.*
6. a) What happens to the pressure if the temperature is increased?  
b) decreased? *When the temp is increased the pressure goes up for everyone of them except oxygen and when the temp is decreased the pressure goes down for everyone except oxygen. For oxygen when the temp is increased pressure goes down while decreasing it makes the pressure go up.*

# States Of Matter Phet Answers

**J Rink**



## States Of Matter Phet Answers:

Extreme States of Matter, Revised Edition Joseph Angelo, 2020-04-01 Extreme States of Matter Revised Edition takes the reader on a journey across the most exciting scientific frontiers of the 21st century Supported by full color illustrations this reference describes the unusual characteristics and properties of matter at extreme states Such extreme states include matter at exceptionally high temperatures exceptionally low temperatures incredibly high pressures intense magnetic fields and intense gravitational fields Readers will explore how the properties and characteristics of extreme state matter might influence the course of human civilization in this century in this up to date reference edition Chapters include An Initial Look at Matter Nearing Extreme Conditions Birth of the Universe Atomism Very Hot Matter Life Cycles of Stars The Dark Side of the Universe Very Cold Matter Antimatter Beyond Einstein Living and Thinking Matter Handbook on Personalized Learning for States, Districts, and Schools Marilyn Murphy, Sam Redding, Janet Twyman, 2016-07-01 The recent passage of the Every Student Succeeds Act ESSA presents new opportunities and greater flexibility in efforts to personalize learning for all children The Handbook on Personalized Learning for States Districts and Schools provides insight and guidance on maximizing that new flexibility Produced by the Center on Innovations in Learning CIL one of seven national content centers funded by the U S Department of Education this volume suggests how teachers can enhance personalized learning by cultivating relationships with students and their families to better understand a child s learning and motivation Personalized learning also encourages the development of students metacognitive social and emotional competencies thereby fostering students self direction in their own education one aimed at mastery of knowledge and skills and readiness for career and college Chapters address topics across the landscape of personalized learning including co designing instruction and learning pathways with students variation in the time place and pace of learning including flipped and blended classrooms and using technology to manage and analyze the learning process The Handbook s chapters include Action Principles to guide states districts and schools in personalizing learning **Brain-powered Science** Thomas O'Brien, 2010 How can a long metal needle pass through a balloon without popping it How can water flow at very different rates through two identical funnels How can a stick placed on a table under several sheets of newspaper and extended over the edge of a table snap when quickly struck without lifting or tearing the paper Author Thomas O'Brien takes these and 30 more science inquiry activities to a higher level in this book for educators who love to surprise and challenge their students with unanticipated results Using experiments based on the science of a discrepant event an experiment or demonstration in which the outcome is not what students expect O'Brien shows how learners can be motivated to reconsider their preconceived notions and think more closely about what has actually occurred and the underlying scientific explanations What makes this volume more valuable than a mere activity book is the addition of a science education component to the extensive science content found in each activity Each discrepant event is shown to be analogous to a pedagogical principle Speaking directly to teachers O

Brien writes Your participation as teacher as learner experimenter rather than simply passive reader in these minds on activities will lead you to question and help you to revise your implicit assumptions about the nature of science teaching and learning At the same time you will develop expertise with activities that you can use with your own students The dual purpose activities thus allow you to unlock two doors with one key the doors to your own learning and to your students learning The detailed analogies between the activities and science learning make the book an ideal resource for middle and high school teachers science teacher educators and their preservice students and professional development specialists alike This thorough and thought provoking text includes more than 200 up to date internet resources as well as extensions to each of the physical science biology and chemistry activities bringing the total number of inquiry activities to nearly 120 Most important the author reminds teachers that the study of science is full of surprises and should be both meaningful and fun for students

**Powerful Task Design** John Antonetti,Terri Stice,2018-03-01 How can educators use technology to increase students engagement in activities essential to rigorous learning What are the most effective tools for analyzing designing and refining those tasks of learning And finally how can we increase the cognitive rigor and thoughtful integration of technology into learning tasks in order to better prepare students for college and beyond In Powerful Task Design these questions and more will be answered as you get to know the Powerful Task Rubric for Designing Student Work Applicable for educators across all disciplines and grade levels you ll use the tool to analyze design and refine cognitively engaging tasks of learning This guide will help you Explore and use the Powerful Task Rubric piece by piece in an easily digestible format to help you delve into the tool s design components Use technology to complete interactive tasks and understand first hand how technology is a critical design component in student task design that brings about more profound and relevant learning Identify opportunities for creating powerful tasks in the areas of engagement academic strategies questions and cognition Supplement your task design arsenal with tools like the Diagnostic Instrument to Analyze Learning DIAL This must have resource brings together the research and strategies educators need to design engaging powerful learning tasks Student performance has a direct correlation to the power of the learning task this book will help you positively impact both

*A Commentary on the Holy Bible: Commentary on the Old Testament* Thomas Coke,1802 *A Complete Collection of State-trials and Proceedings for High-treason, and Other Crimes and Misdemeanors: 1696-1709* Sollom Emlyn,1742

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government as well as by nongovernmental actors such as unions businesses NGOs and the media

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