

## Pool Cubes 2: Buoyancy

**Purpose**

To investigate the nature of the buoyant force and to see the role it plays in determining whether or not an object floats.

**Apparatus**

\_\_\_\_computer

\_\_\_\_PhET sim, "Buoyancy" (available at <http://phet.colorado.edu>)

**Discussion**

When objects are immersed in a fluid, the fluid exerts a force on them. This is the buoyant force.

**Procedure****INITIAL SETUP**

Turn the computer on and let it complete its startup cycle. Locate and open the PhET sim, "Buoyancy," and note that it opens in its "Intro" tab. Do not change the settings in the on-screen Blocks, Fluids, or Show Forces panels.

**PART A: WOOD**

**Step 1:** Measure (in the sim) and record the weight ( $W$ ) of the 5.00-kg wood block.

**Step 2:** a. Place the wood block in the water and notice that it floats.

- b. When the wood block rests on the ground, the downward gravitational force is balanced by an upward normal ("contact") force. When floating, the gravitational force is still there, but the normal ("contact") force is not. The force exerted by the fluid is the buoyant force ( $B$ ). When floating, which force is greater: the gravitational force or the buoyant force? Defend your answer.

- c. Record the value of the buoyant force acting on the wood block.

**Step 3:** a. What volume of water does the wood block displace when it floats in the water?

- b. What is the mass of that displaced water? (Note that the density of water is 1.00 kg/L.)

# Pool Cubes 2 Buoyancy Answers

**Roger Freedman, David L. Tauck, Philip  
R. Kesten**



## **Pool Cubes 2 Buoyancy Answers:**

Atmospheric Thermodynamics Craig Bohren, Bruce Albrecht, 2023-05-05 Atmospheric Thermodynamics provides a comprehensive treatment of a subject that can often be intimidating. The text analyses real life problems and applications of the subject alongside of guiding the reader through the fundamental basics and covering the first and second laws and the ideal gas law followed by an emphasis on moist processes in Earth's atmosphere. Water in all its phases is a critical component of weather and the Earth's climate system. With user friendly chapters that include energy conservation and water and its transformations the authors write with a willingness to expose assumptions and approximations usually absent in other textbooks. History is woven into the text to provide a context for the time evolution of thermodynamics and its place in atmospheric science and demonstrating how physical reasoning leads to correct explanations of everyday phenomena. Many of the experiments described were done using inexpensive instruments to take advantage of the earth's atmosphere as a freely accessible thermodynamics library. This second edition provides updated treatments of atmospheric measurements and substantially expanded sections that include atmospheric applications of the first and second laws and energy exchange between humans and their atmospheric environment. With 400 thought provoking problems and 350 references with annotated notes and further reading suggestions this second edition provides a basic understanding of the fundamentals of this subject while still being a comprehensive reference guide for those working in the field of atmospheric and environmental sciences.

**A Guide for Using Missing May in the Classroom** Janet Buckley, Lauren Corcoran, 2001 Provides many activities to use when presenting Missing May by Cynthia Rylant. Projects include pre reading activities, biographical sketch, book summary, vocabulary lists and book report activities.

**Science Experiences for Nursery School Children** Dorothy Haupt, 1960

**College Physics: Volume 1** Roger Freedman, David L. Tauck, Philip R. Kesten, 2013-07-12 College Physics brings physics to life through a unique approach to the algebra level introductory physics course. Its winning combination of annotated art, carefully integrated life sciences applications and strong problem solving and conceptual understanding pedagogy makes this the best text available for helping students master the physics they need to know for their future careers. Using innovative visual cues to break down physics concepts and sequences in numbered equations and figures, College Physics leads students to develop the crucial conceptual understanding they need to be successful in the course. Carefully crafted to support students new to college level physics, pedagogical features include chapter goals, Take Home Messages, Got the Concept, Watch Out guide students to becoming adept problem solvers. By incorporating a rigorous presentation of the fundamentals of algebra based introductory physics with formative physiology, biomedical and life science topics, students learn to connect physics to living systems. The ultimate goal is for students to have both a solid foundation in physics and to develop a deeper appreciation for why physics is important to their future work in the life sciences.

General College Physics Ertle Leslie Harrington, 1952      Rock Products , 1909      Arup Building Design Christian

Brensing, Christian Schittich, 2013-06-03 Die Idee der Total Architecture wie Ove Arup einst seinen Entwurfsansatz beschrieben hat gilt auch heute noch als Maxime für das weltweit agierende Ingenieurbüro ARUP und seinem Building Engineering Department Anhand ausgewählter Projekte aus den letzten Jahren zeigt dieser zweite Band der neuen Reihe DETAIL engineering wie zukunftsfröhliche und nachhaltige Ingenieurbaukunst mit diesem Ideal des ganzheitlichen Entwurfsverfahrens verbunden werden kann immer mit dem Anspruch an die perfekte Einheit von Kraft und Eleganz eines jeden Tragwerks Im Fokus stehen die unterschiedlichen Prozesse die diese vorgestellten Bauaufgaben begleitet haben Es zeigen sich Zusammenhänge zwischen den einzelnen Bauten deren Synergien zum Teil beispielhaft weiterverfolgt werden An den bemerkenswerten Hochbau Projekten wird deutlich was die Ingenieure von ARUP heute wie gestern antreibt und inspiriert die Leidenschaft Pionierarbeit zu leisten The Surveyor & Municipal & County Engineer ,1938 Games Magazine Big Book of Games Ronnie Shushan, 1984 From the editors of Games magazine their cleverest quirkiest orneriest most playful and beguiling brain twisters *American Journal of Theology & Philosophy* ,1980 *Surveyor and Municipal and County Engineer* ,1938

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