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Things That Float And Things That Don't



Synopsis

Why is it that a piece of metal doesn't float but a huge ship made of steel does? Here are answers to questions about density and flotation.

Book Information

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Age Range: 7 - 10 years

Grade Level: Preschool - 2

Customer Reviews

K-Gr 2—This introduction to density offers new vocabulary in bold font, delightful soft-hued illustrations, and clearly focused content on flotation. The strong examples provide extension activities that can be done at home or in the classroom. The images enhance the concept as readers meet a boy, a girl, and their dog as they embark on an adventure to discover what will float and what won't. For example, a spread depicting how density is relative to the size of the object shows the dog looking over a kitchen sink full of water as a piece of aluminum foil floats as a loose ball and sinks as a tight one. This title supports the Common Core State Standards that focus on measurement skills, interpretation of data, and incorporation of key ideas and details in the text. Recommended for math collections in public and school libraries and classroom shelves.—Melissa Smith, Royal Oak Public Library, MI (c) Copyright 2013. Library Journals LLC, a wholly owned subsidiary of Media Source, Inc. No redistribution permitted. --This text refers to the Hardcover edition.

Starred Review In this engaging book on density, Adler explains the concept in terms a child can

understand; he does so through straightforward text and basic density-related activities. The brief explanation that something's density is "its weight relative to its size" is useful, but the varied ways of demonstrating the concept are even better. A loosely crumpled ball of aluminum foil floats in water, but a tightly packed ball sinks because of its greater density. A lump of modeling clay sinks, but shaped into a boat that "encloses air," the same clay floats. Other activities show how the density of water changes when it's frozen or made salty. The section on "guessing which things float and which things don't" is particularly fine, not only because it's challenging and fun but also because it leads kids to use elements of the scientific method without mentioning the term. Created with ink washes and drawings and "assembled digitally," Raff's jaunty, imaginative illustrations feature two curious children and their dog playing around with objects and water. It's rare to find a picture book that uses simple hands-on activities so successfully, leading young children to a fuller understanding of a scientific concept. Preschool-Grade 2. --Carolyn Phelan --This text refers to the Hardcover edition.

I bought this to supplement materials in my 2nd grade class for teaching solids and liquids. I saw it at a science conference and then went home and bought it online on for much cheaper than it was sold at the conference. Great book, lots of info for my 2nd graders.

This is a great book for discussing density and solutions. The cover makes it seem like it's aimed for younger learners, but the concepts are applicable for grade 4 and up. Difficult concepts are explained in kid-friendly terms, and several investigations are suggested to help students grasp ideas.

I love reading it to my great grandchildren. The art work is wonderful!! Hope we see more like this.
thanks

Thanks.

Very educational. We made the experiment with the kids ;)

I teach a kids' science class for ages 3 - 7. This is not something I would read aloud to 3 -5 year olds as it's too complex. But, it's a FABULOUS book for 6

It's a hit with my 9 year olds, especially in a home school setting, where you and your child could actually walk through each of the experiments together. Fun illustrations of a boy, a girl, and a dog, plus the fact that the book is written in second person - addressed to the reader - is inviting them to try everything out ("You could have fun guessing which things float. Fill your sink about halfway. Make this an engaging non-fiction read. Guides kids through a series of observations and experiments with household objects to learn about density.

This wonderful book answers all your questions about density and flotation. STEM books are in high demand as it's a unique way of knowing and exploring the world and this book by author David A. Adler provides a clear explanation of why some things float and others do not. This is a fun book about science that introduces children to the Scientific Method and explains the concept of density and the reason why different objects (and even the same object in a different form) float or sink. It's a great picture book that uses simple, hands-on activities leading young children to a fuller understanding of a scientific concept and I would recommend this for elementary school-age children. It can be surprising which objects float and which don't. An apple floats, but a ball of aluminium foil does not. But if that same ball of foil is shaped into a boat, it floats! Why? This book does a great job explaining a tricky concept. Difficult concepts are explained in kid-friendly terms, and several investigations are suggested to help students grasp ideas. The illustrations are very colourful and cartoonish and effectively demonstrate the activities described in the text with large images that are easy to comprehend. A boy, a girl and a dog demonstrate things that float in water when they are less dense than the water around them. These kids can also be seen using toy boats, plastic bottles, pennies, aluminium foil, clay and ice to discover what things float and why. Adler suggests filling a sink with water and testing whether different objects float, as well as using modelling clay to demonstrate how shape is as important a factor as density. This book can be a great addition in classroom and Libraries. It can be very helpful & useful for science teachers to explain to the kids this tricky concept of density and flotation in a fun & easy-to-understand way! The book can be further enhanced with more objective questions based on understanding. I reviewed this book for reading with your kids podcast and found it extremely very informative, points are well presented.

This book is a hit with my 7 and 9 year olds. I shorten some of it for my 2 and 4 year old but they all like doing this experiments that are suggested. I love that Adler asks the kids to think about what

may happen. Great overall book and the illustrations are a perfect fit for the story!

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