



# Fun Physics Projects for Tomorrow's Rocket Scientists: A Thames and Kosmos Book

*Alan Gleue*

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## Learn about physics with fun projects and experiments

Created in partnership with Thames & Kosmos, *Fun Physics Projects for Tomorrow's Rocket Scientists* introduces you to essential physics concepts through do-it-yourself projects that you can then use to perform experiments. Experience the thrill of scientific discovery when you observe the physics of motion, including constant speed, acceleration, and free fall, through your own experiments. All of the projects use inexpensive, readily available materials and software. No experience required!

### Chapters feature:

- **Things You'll Need**--lists of all the components and equipment required for each project
- **Be Careful**--important safety tips
- **Famous Scientists**--introductions to people who've made significant contributions to our understanding of physics
- **Online Videos**--link to the author's demonstrations of the projects

### Step-by-step projects include:

- Constant-speed vehicle
- Uniform acceleration fan car
- Tennis ball cannon to investigate speed and study free fall
- Trebuchet for observing the force of weight
- Projectile-motion catapult
- Water rocket to demonstrate Newton's Laws of Motion
- Mousetrap-powered car that displays energy transformations
- Model rocket engine to calculate momentum and impulse
- Rocket launch ignition system and launch pad
- Cool model rockets that demonstrate acceleration, speed, and altitude

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