

## Frequently-asked questions about *CRASH! The Science of Collisions*

Q *Is the CRASH! package really needed?*

A Absolutely. According to National Highway Transportation Safety Administration statistics, when a teenager gets behind the wheel of a car he or she is *more than twice as likely* to be involved in a fatal accident as an adult driver.

Q *What makes CRASH! more effective than other approaches to teaching driving safety?*

A *CRASH!* directly involves students in learning how the laws of physics limit the abilities of drivers to control their vehicles. Students do more than just hear lectures or see demonstrations—they actively calculate things like how far a car going 45 mph will travel while its driver looks away from the road for two seconds to adjust the radio, or how fast a car was going before the driver hit the brakes if it left a 14-foot skid mark. By participating in such exercises students gain a genuine understanding of the implications and consequences of speed, inattention, and alcohol; and that understanding has been demonstrated to modify their behind-the-wheel behavior.

Q *What is the origin of the CRASH! package?*

A It was created by Professor John Kwasnoski, well known both as a teacher of college physics and as one of America's leading experts on the forensic reconstruction of automobile collisions.

Q *Is CRASH! intended to replace existing science courses?*

A No. *CRASH!* is a set of class activities, both indoor and outdoor, explicitly designed as resources that teachers can select to supplement existing math and science courses.

Q *Can CRASH! be used by an individual teacher, or is a team required?*

A The *CRASH!* exercises can be used effectively either by a single teacher or by a team. It is a particularly good resource for teachers with different teaching methods who can work in partnership to introduce the various scientific principles involved and oversee the exercises.

Q *Are there upper or lower limits on class size for effective use of the CRASH! package?*

A The materials work well with as many as 30 students in a classroom setting, but they also make excellent special assignments for individual students or small teams.

Q *Do teachers need to be technically oriented to use the CRASH! package?*

A The use of *CRASH!* need not be restricted to math and science teachers, but the principles covered can be presented most effectively by teachers who are at least comfortable with technical and scientific topics.

Q *How much actual classroom use has been made of the CRASH! package?*

A Over 500 *CRASH!* kits are in use today, in all parts of the U.S.

Q *Are references from schools that have used CRASH! available?*

A Yes. Tower can provide testimonials from teachers, students, and highway safety officials who know from direct experience that this teaching resource makes a difference in how kids drive.

Q *How much do CRASH! kits cost? Does anything else need to be purchased?*

A Each kit costs \$800.00, plus \$50.00 for delivery. Kits contain everything needed, even a video orientation for teachers. With proper care of the texts, video recordings, and equipment that are included, plus authorized photocopying of the exercise forms furnished, each kit can be used for years of classes.

Q *Is there any way of making CRASH! affordable by schools with tight budgets?*

A Many of the 500-plus *CRASH!* kits in use in schools today were donated by businesses, like banks and insurance companies, with a strong sense of obligation to protect the lives of youth in their communities. Interest in sponsoring *CRASH!* has also been expressed by service organizations like Kiwanis, Rotary, and Lions Clubs, as well as by businesses—such as liquor manufacturers and distributors—that historically have made efforts to support responsible drinking and safe driving. Tower will be happy to help schools identify potential local funding sources and approach them with sponsorship proposals.

Q *What if a school buys a CRASH! kit and is unsatisfied with it?*

A Like all of Tower's products, *CRASH!* is guaranteed unconditionally. Period. If it doesn't work for both students and teachers as described, you may return it, within two years of purchase, for a complete refund. That's how much we believe in this product.