

Take Home Activities

These take-home activities may be used in several different classes. They afford an opportunity to engage people in a learning activity that could save lives.

Find additional information and resources at
www.legalsciences.com/CRASH!



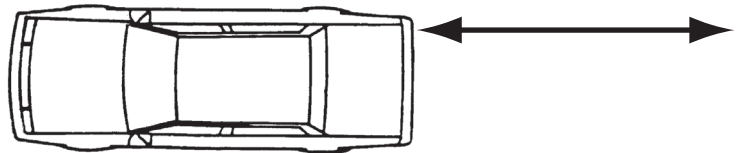
I Was Just Backing Up !

FACT: EVERY WEEK in the U.S. AT LEAST 50 CHILDREN ARE BACKED OVER in driveways and parking lots.

FACT: There are many devices which can be installed in a vehicle to help the driver detect a person behind the vehicle. Check out www.KidsAndCars.org

ACTIVITY:

1. CONSTRUCT A "CHILD VISIBILITY TARGET" BY STAPLING A WHITE PAPER PLATE TO A STICK, SO THE TOP OF THE PAPER PLATE IS 28" FROM THE GROUND.
2. PARK A VEHICLE ON A LEVEL SURFACE AND HAVE THE DRIVER (YOUR PARENT OR FRIEND) GET IN THE VEHICLE AND ADJUST THE REAR-VIEW MIRROR .
3. PLACE THE "CHILD VISIBILITY TARGET" AT THE RIGHT SIDE OF THE REAR BUMPER AND SLOWLY MOVE THE TARGET BACK UNTIL THE DRIVER CAN SEE THE UPPER HALF OF THE PLATE CLEARLY. MEASURE THE DISTANCE FROM THE BUMPER TO THE "CHILD". (AS SHOWN)
4. REPEAT FOR THE MIDDLE AND LEFT SIDE OF THE REAR BUMPER
5. REPEAT THE SAME MEASUREMENTS IN FRONT OF THE VEHICLE.
6. RECORD THE MAKE _____, MODEL _____, YEAR _____



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Can a Seat Belt Save Your Life ?

ACTIVITY: ASK FIVE ADULTS TO TAKE THE FOLLOWING SURVEY

1. DOES YOUR STATE HAVE A MANDATORY SEAT BELT LAW REQUIRING DRIVERS AND THEIR PASSENGERS TO WEAR SEAT BELTS?

YES

NO

DON'T KNOW

2. CAN A POLICE OFFICER STOP YOUR VEHICLE TO ISSUE YOU A CITATION IF YOU OR ANY OF YOUR PASSENGERS ARE NOT WEARING A SEAT BELT?

YES

NO

DON'T KNOW

3. BY WHAT PERCENTAGE IS YOUR CHANCE OF BEING SERIOUSLY INJURED IN A CAR CRASH REDUCED IF YOU WEAR A SEAT BELT?

26%

34%

50%

4. WHAT PERCENTAGE OF PEOPLE WEAR A SEAT BELT WHEN THEY ARE AN OCCUPANT OF A VEHICLE ?

67%

74%

84%

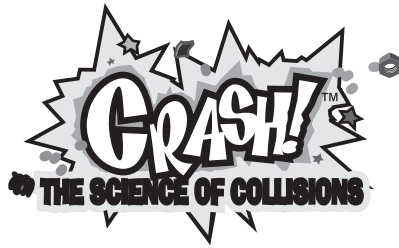
5. EACH YEAR THE NUMBER OF 15 – 20 YEAR OLDS WHO ARE KILLED OR INJURED IN CAR CRASHES IS APPROXIMATELY

100,000
(273 each day)

200,000
(546 each day)

450,000
(1,232 each day)

SEAT BELT LIVES AVER



Seat Belt Traffic Survey

ACTIVITY:

GO TO A LOCATION WHERE YOU CAN WATCH TRAFFIC TO OBSERVE SEAT BELT USE BY THE DRIVERS.

LOCATION _____

TIME _____

MAKE A DATA SHEET, OBSERVE 100 VEHICLES, AND PUT A CHECK MARK FOR THE INFORMATION ABOUT EACH DRIVER.

Buckled Up?

Yes

No

MALE DRIVER

FEMALE DRIVER

DRIVER'S AGE UNDER 20 YRS

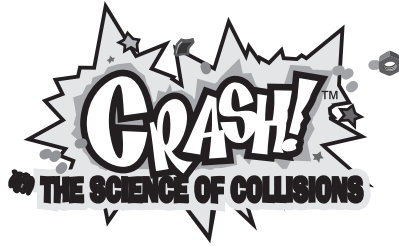
DRIVER'S AGE 20 – 40 YRS

DRIVER'S AGE 40 – 60 YRS

DRIVER'S AGE 60 OR GREATER

PASSENGERS IN VEHICLE

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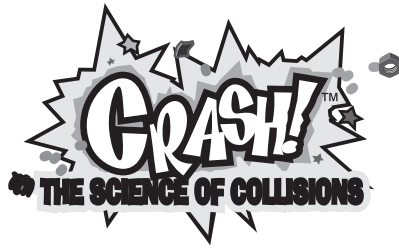


Can You Afford a DWI ?

ACTIVITY: ASK AN ADULT TO FILL IN THE VARIOUS COSTS OF BEING ARRESTED AND CONVICTED OF DWI.

- _____ **DWI FINE**
- _____ **COURT COSTS**
- _____ **ATTORNEY FEE**
- _____ **RETRIEVE CAR FROM IMPOUND**
- _____ **TOWING CHARGE**
- _____ **ENROLLMENT IN DWI SCHOOL**
- _____ **LOSS OF WAGES**
- _____ **BAIL EXPENSE**
- _____ **TRANSPORTATION DURING LICENSE REVOCATION PERIOD**
- _____ **REINSTATEMENT OF LICENSE**
- _____ **INSURANCE SURCHARGE**
- _____ **OTHER COSTS**
- _____ **TOTAL COST – CAN YOU AFFORD IT ?**

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Does Speeding Save Time?

ACTIVITY: ASK FIVE ADULTS TO COMPLETE THIS EXERCISE.

IDENTIFY A TRIP OF MORE THAN 30 MILES THAT THE PERSON TAKES ON A HIGHWAY THAT HAS A POSTED SPEED OF 65 MPH. THEN CALCULATE THE NUMBER OF MINUTES THAT WOULD BE SAVED BY GOING 75 MPH (10 MPH OVER THE SPEED LIMIT)

THE DIFFERENCE IN TIME TRAVELING 10 MPH OVER THE SPEED LIMIT IS:

TIME DIFFERENCE (minutes) @ 75 MPH = $0.126 D$ distance D is in miles

1st PERSON: LENGTH OF TRIP, D _____ MILES
TIME DIFFERENCE @ 75 MPH _____ MINUTES

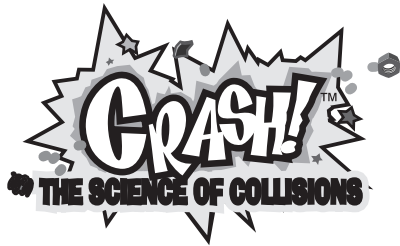
2nd PERSON: LENGTH OF TRIP, D _____ MILES
TIME DIFFERENCE @ 75 MPH _____ MINUTES

3rd PERSON: LENGTH OF TRIP, D _____ MILES
TIME DIFFERENCE @ 75 MPH _____ MINUTES

4th PERSON: LENGTH OF TRIP, D _____ MILES
TIME DIFFERENCE @ 75 MPH _____ MINUTES

5th PERSON: LENGTH OF TRIP, D _____ MILES
TIME DIFFERENCE @ 75 MPH _____ MINUTES





Social Host Survey

ACTIVITY: ASK TWO ADULTS TO COMPLETE THIS EXERCISE

1. DOES YOUR STATE HAVE A SPECIFIC "SOCIAL HOST" LAW THAT DEFINES THE RESPONSIBILITIES OF AN ADULT WHO HOSTS A PARTY AT WHICH UNDER AGE PEOPLE CONSUME ALCOHOLIC BEVERAGES?

 YES NO DON'T KNOW

2. IF SOMEONE ATTENDING A PARTY AT YOUR HOME IS INJURED IN A CAR ACCIDENT IN WHICH AN UNDERAGE DRINKER IS INVOLVED CAN YOUR PARENTS BE SUED AS A "SOCIAL HOST"?

 YES NO DON'T KNOW

3. HAVE THERE BEEN ANY COURT CASES IN YOUR STATE IN WHICH A "SOCIAL HOST" WAS SUCCESSFULLY SUED BY SOMEONE INJURED IN A CAR ACCIDENT?

 YES NO DON'T KNOW

4. CAN YOU BE HELD RESPONSIBLE AS A "SOCIAL HOST" EVEN IF YOU DON'T PROVIDE THE ALCOHOLIC BEVERAGES?

 YES NO DON'T KNOW

5. CAN YOU BE HELD CRIMINALLY RESPONSIBLE AS A "SOCIAL HOST", AND ACTUALLY RISK GOING TO PRISON FOR HOSTING A PARTY AT WHICH ALCOHOLIC BEVERAGES ARE SERVED TO UNDERAGE DRINKERS?

 YES NO DON'T KNOW

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Distracted Driver Survey

ACTIVITY:

ASK FIVE ADULTS TO DESCRIBE SOMEONE THEY HAVE OBSERVED WHO WAS DISTRACTED (in any way) WHILE DRIVING.

1st PERSON: _____

2nd PERSON: _____

3rd PERSON: _____

4th PERSON: _____

5th PERSON: _____

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Teacher's Notes: I Was Just Backing Up !

OPTIONAL ACTIVITIES:

1. Make a poster to show the blind spots in front and behind the vehicle to share your findings with other people.
2. Compare different vehicles (e.g. sedan, SUV, truck, etc.).
3. Prepare an article for the local newspaper to make the community aware of this problem, or work with the local Public Television Channel to produce a show about this.
4. Have a group of students prepare a demonstration of the backover problem that they can show at a local supermarket or other public place to educate people about this tragedy.

Your students can have people sit in a car and then demonstrate the measurement they made of the blind spot behind a vehicle.

5. A very visual demonstration of the blind spot would be to have students sit on the ground behind a vehicle to demonstrate that they are not visible to the driver. A picture of this is a very dramatic way of making the point about the blind spot.

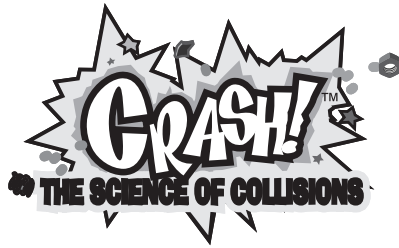
Can a Seat Belt Save Your Life ?

BEFORE USING THE SEAT BELT SURVEY YOUR STUDENTS WILL HAVE TO FIND THE ANSWERS TO QUESTIONS 1 AND 2 FOR YOUR STATE.

ANSWERS: #3 50% #4 84% #5 450,000

Students should be prepared to give the correct answers to the people whom they survey.

Continued on next page



OPTIONAL ACTIVITIES (continued from page 1):

1. Compile the survey results for the whole class and report on how informed the participants in the survey were.
2. Prepare an article for the local newspaper to make the community aware of your survey, or work with the local Public Television Channel to produce a show about the importance of seat belt use, especially among teenagers.
3. Invite a police officer to your class to talk about seat belt laws from the law enforcement perspective.

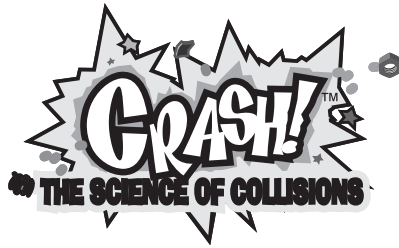
Seat Belt Traffic Survey

1. Discuss various characteristics of drivers that might be observed for the purpose of grouping the drivers when the data is collected and reported.
2. Design a strategy for different observers to combine their data to make their observations statistically significant, and this might prompt a discussion of statistical methods for reporting the data.
3. Make a poster to show the results
4. Prepare an article for the local newspaper to make the community aware of your results, or work with the local Public Television Channel to produce a show about your local observations.

Can You Afford a DWI ?

1. Have the students make posters to show the costs of being arrested and convicted of DWI, and invite a representative of MADD or someone from the District Attorney's Office to judge the posters. Ask a local business to provide prizes for the winners.

Continued on next page



Can You Afford a DWI ? (continued from page 2):

2. Submit an article to the local newspaper about the costs of having a DWI conviction.
3. Contact the local public TV station or the news department of the local TV channel to have them run a feature on the students' findings.
4. Invite the district attorney to your class to talk about the seriousness of getting a DWI conviction.

Does Speeding Save Time ?

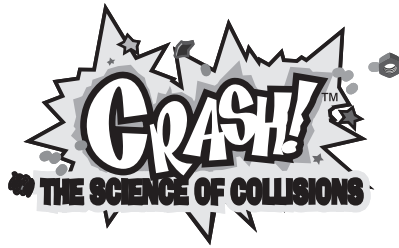
1. The time (hrs) to travel a distance D (in miles) at 65 mph is
 $T_{65} = D / 65 = 0.0154 D$

At a speed of 75 mph the time (hrs) to travel a distance D is
 $T_{75} = D / 75 = 0.0133 D$

The difference in time (hrs) at the two speeds is
 $(0.0154 - 0.0133) D = 0.0021 D$

and the difference in time (minutes) is $(60)(0.0021) D = 0.126 D$

2. Submit an article to the local newspaper about how little time is actually saved by speeding.
3. Contact the local public TV station or the news department of the local TV channel to have them run a story on the students' findings.
4. Make a presentation to another class about the students' findings.



Social Host Survey

BEFORE USING THE SOCIAL HOST SURVEY YOUR STUDENTS WILL HAVE TO FIND THE ANSWERS TO THE QUESTIONS FOR YOUR STATE. THE LOCAL DISTRICT ATTORNEY OR A CIVIL ATTORNEY MAY BE ABLE TO HELP WITH THIS. Students should be prepared to give the correct answers to the people whom they survey.

OPTIONAL ACTIVITIES:

1. Compile the survey results for the whole class and report on how informed the participants in the survey were.
2. Prepare an article for the local newspaper to make the community aware of your survey (you might include information about an actual social hosting case).
3. Work with the local Public Television Channel to produce a show about the social hosting laws in your state.
4. Invite a police officer to your class to talk about social hosting laws from the law enforcement perspective.

Distracted Driver Survey

1. Ask students to estimate the amount of time that a distraction lasts, t , and then calculate how far the car would travel during the distraction.

Distance = 1.47 (speed) (time) Distance is in feet, time is in seconds

2. Have students design a poster to communicate the danger of being distracted while driving. Do not have them design it while driving.
3. Visit the internet for information on distracted driving, especially among teen drivers.
4. Develop a public information strategy to tell the student drivers in your school about the dangers of driving while speaking on a cell phone, texting, or other distractions.