

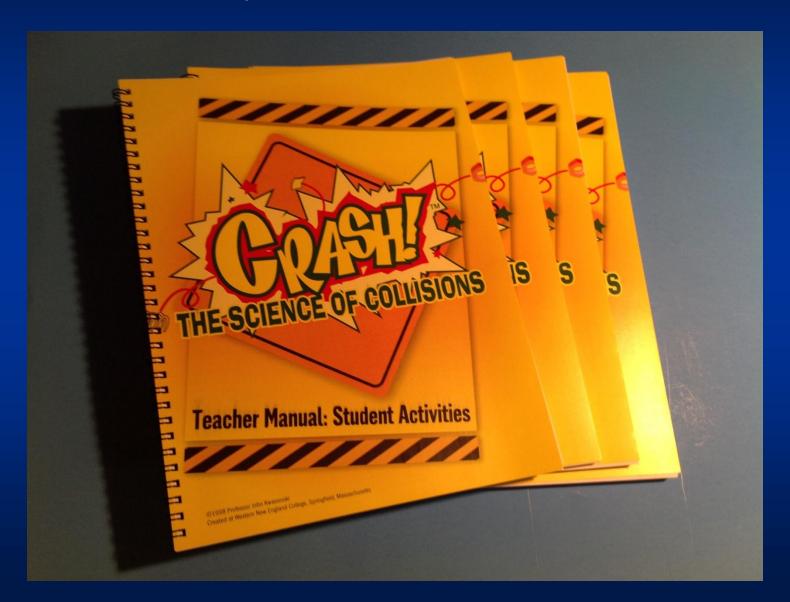
Activities Samples



This presentation and this Power Point are archived at

www.legalsciences.com/about

Where do you start?



Each Teacher's
Manual has a
table of contents.

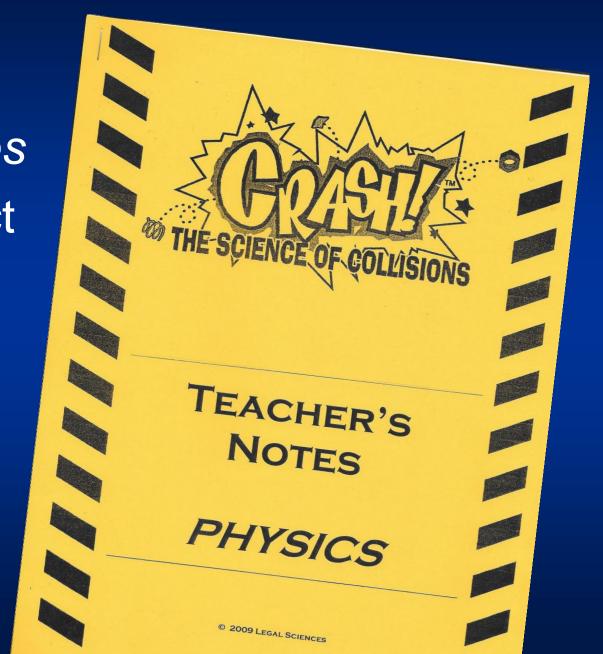
Science Manual, p.4

PERCEPTION - REACTION TIME NEWTON'S LAWS Page CRASH ACTIVITIES-SCIENCE Examining Lamps for ON/OFF at Impact Investigating a Motor Vehicle Homicide Case Was it Safe to Cross? Driver Perception-reaction Time Distractions Can Be Deadly! Skateboards and Cars Don't Mix People Can't Flyl Vehicle Kinematics Does Speeding Really Save Time?

There are

Teacher's Notes

for each subject



Sample activities

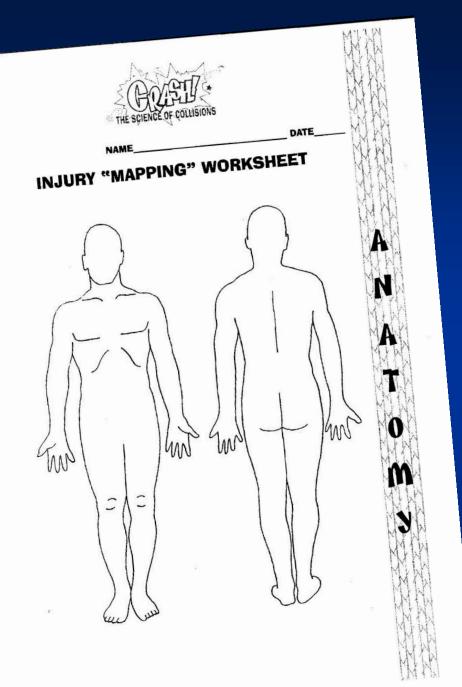
The CRASH! activities easily adapt to *remote learning*.

science activity:

Distractions can be deadly!



Science manual p. 24



biology activity:

Learning anatomy from an autopsy report

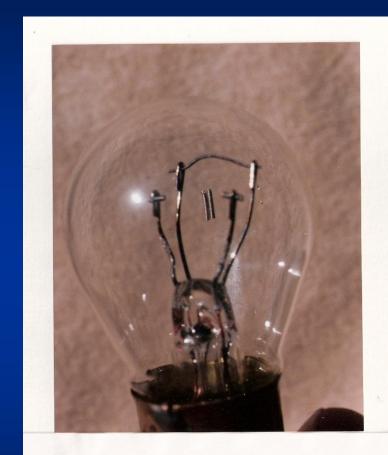
Biology Manual, p. 5 autopsy report p. 7



science activity:

Examining lamps for ON/OFF at impact

Science Manual, p.5 forensic photo's



Evidence #7218A5

Case: State v. William Dufree Location: Broadway/49th Date: 8/2/99 Time: 1945

Secured by: Tpr. Barnes

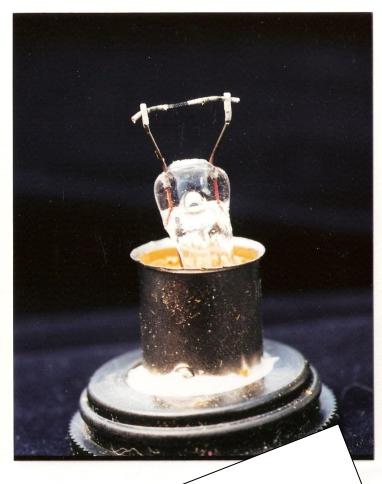


Evidence

affee adway/49th Time: 1945

Date

Tpr. Barnes Secured by:





biology and math activity:

Using the BACSim

reaction time simulation software

BACSim

Enter personal information (weight, sex)
Select a drinking scenario

BACSim calculates resulting BAC

Student performs the on-screen PRT test

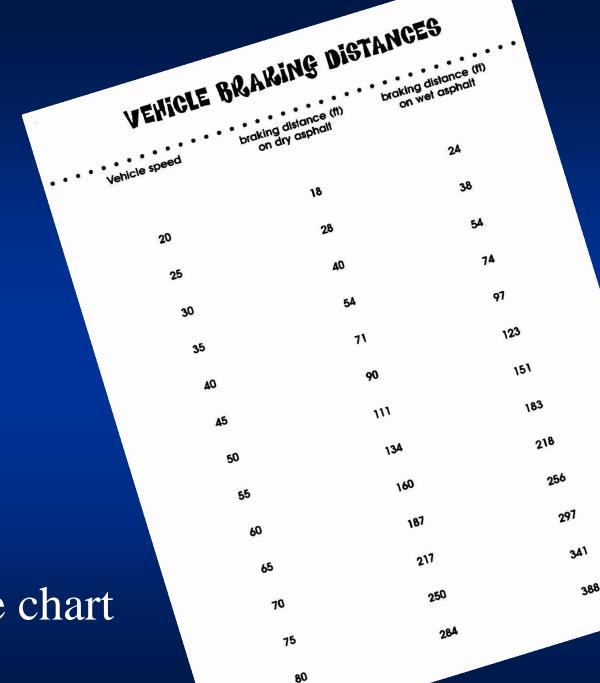
actual PRT shows on screen

alcohol-impaired PRT shows on screen

• BACSim for PC.exe

reaction distance, $X_r = 1.47 (S)(t)$

total stopping distance = $X_r + X_b$



braking distance chart

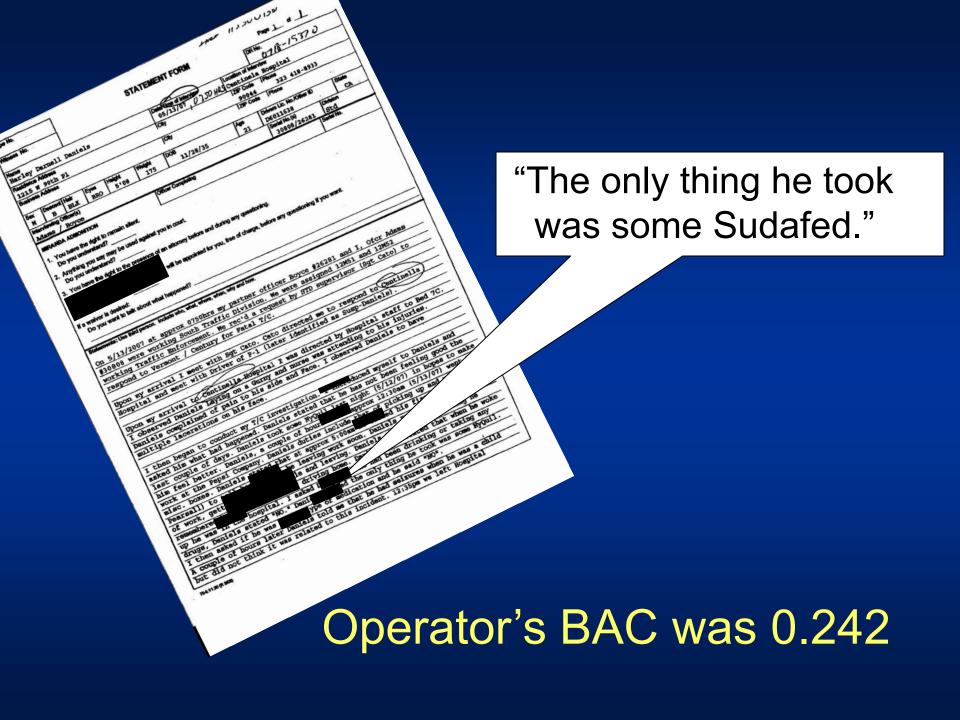
outside demo?

biology activity:

The cough medicine defense

Biology Manual, p. 46

Driver claims alcohol in Sudafed cough syrup caused a high BAC



defendant male weighed 160 lbs

Sudafed facts:



2.4% ETOH

1 bottle = 4.0 oz

cost: \$9.79

$$0.242 = ounces (2.4)$$
 $160 (13.1)$

$$0.242 = ounces(2.4)$$
 $160(13.1)$
 $ounces = 211 oz$

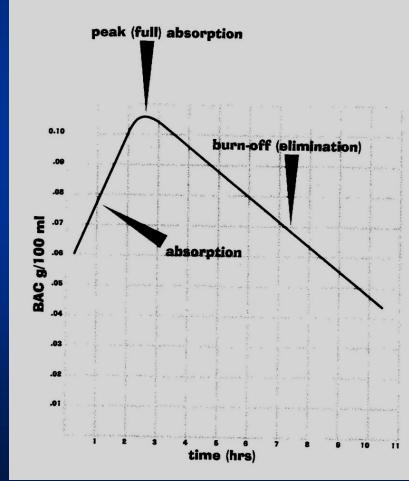
$$0.242 = ounces(2.4)$$
 $160(13.1)$
 $ounces = 211 oz$

 $211 \div 4$ oz/bottle = 52 bottles

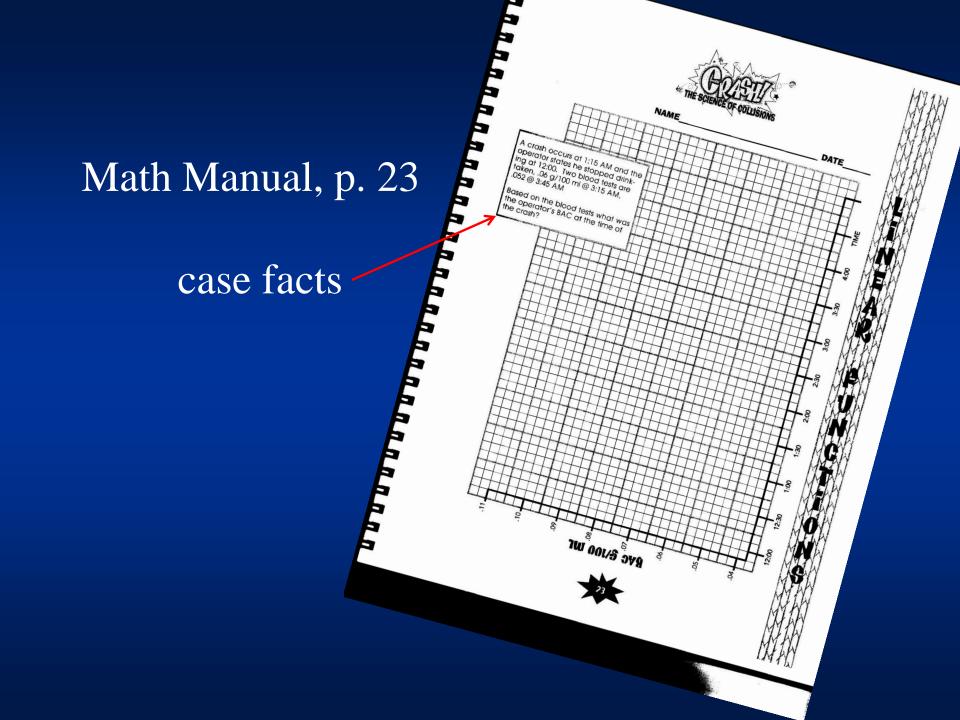
Widmark formula: \$ 509.08 + oz/bottle = 52 bottles

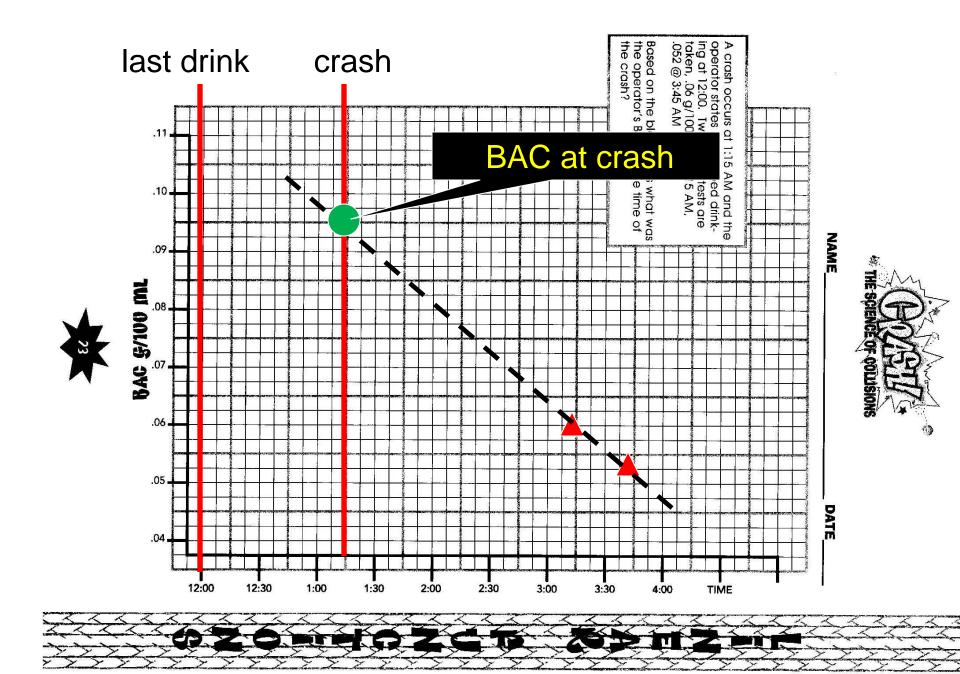
math activity:

Alcohol and driver performance, BAC at time of crash



Math Manual, p. 20

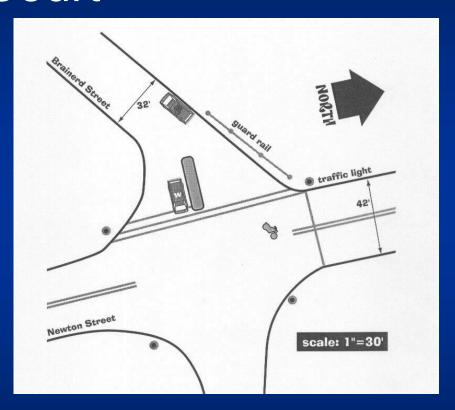




physics activity:

Newton's Laws in Court

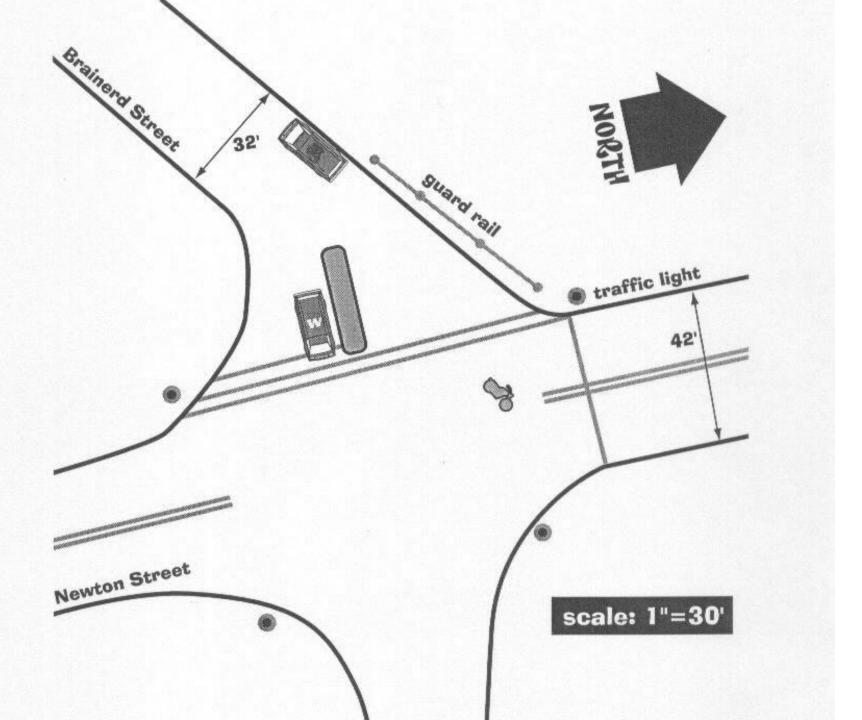
Physics Manual, p. 63



Who was at fault?

Newton's 1st Law:

An object at rest tends to stay at rest, and an object in motion tends to maintain its motion.



Assignment:

Investigate to determine who caused the crash.

Evidence?

Photographs?

Operator questions?

Witness questions?

Police report:

"Vehicle #1 was making a left turn from Newton onto Brainerd, Vehicle #2 was going straight when they came in contact with each other."

"Citation to operator of MV#1for improper left turn."

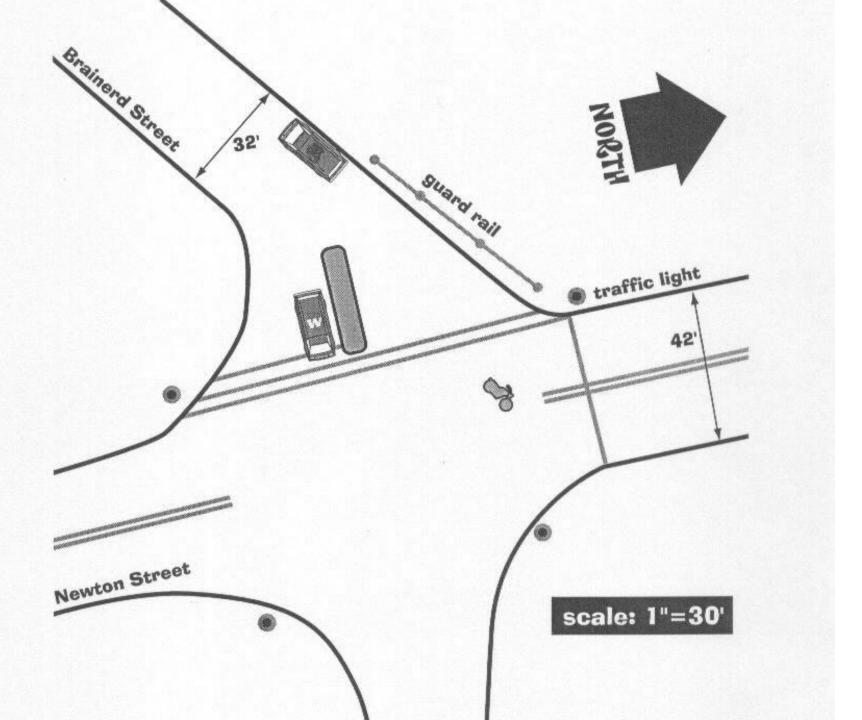








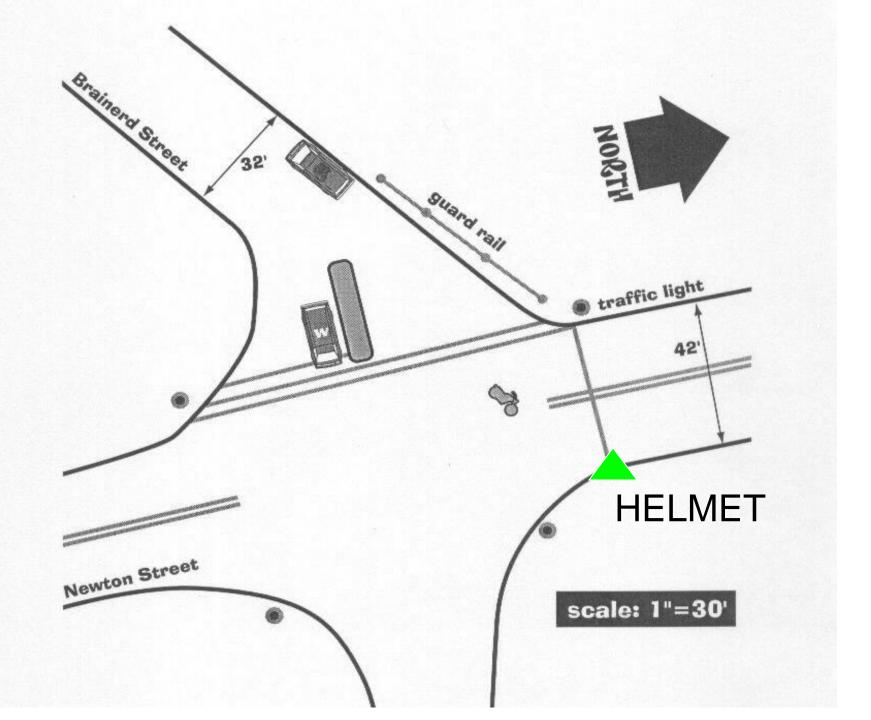


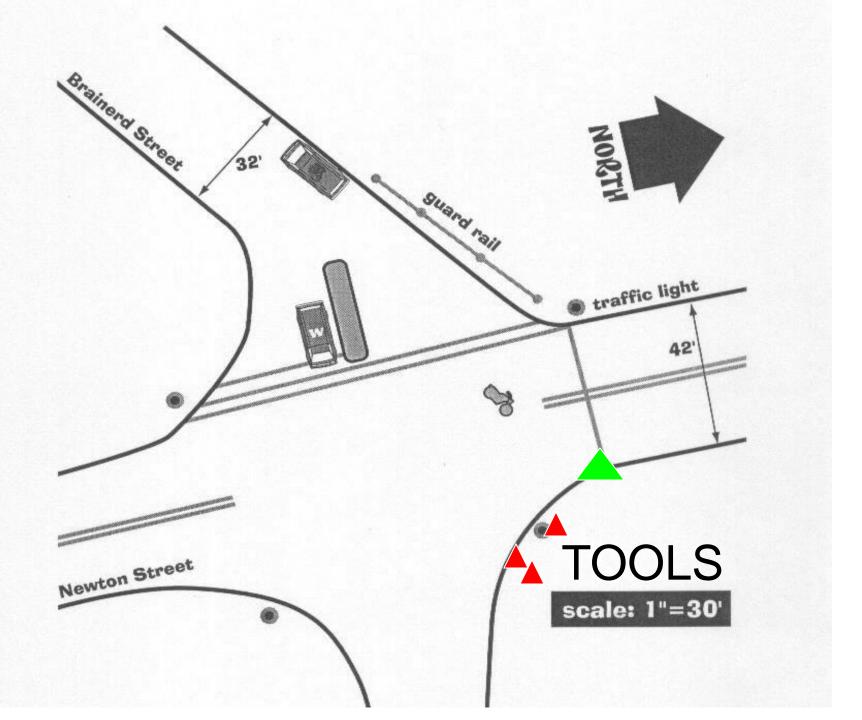


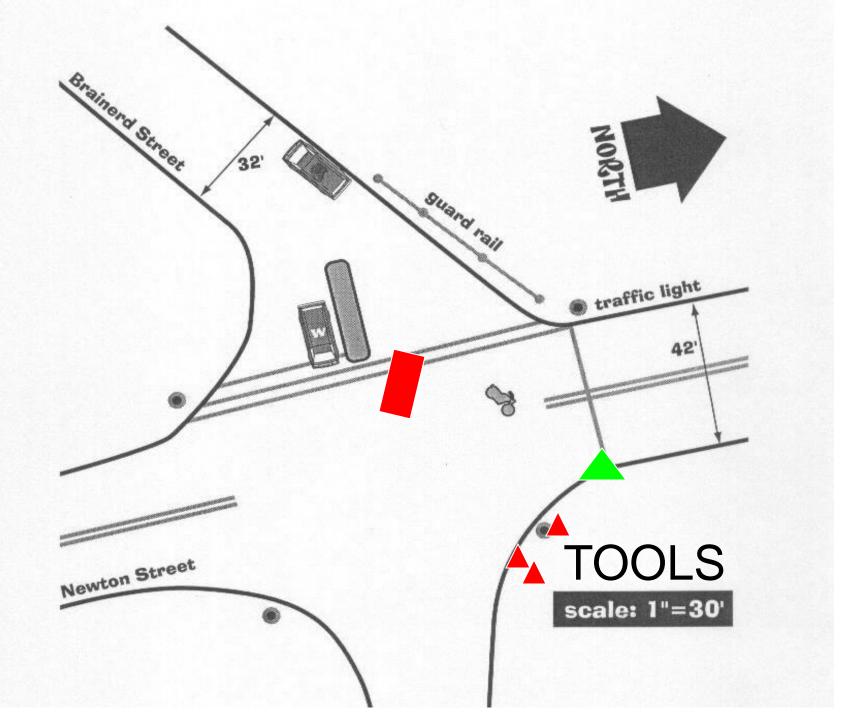
ADDITIONAL INVESTIGATION

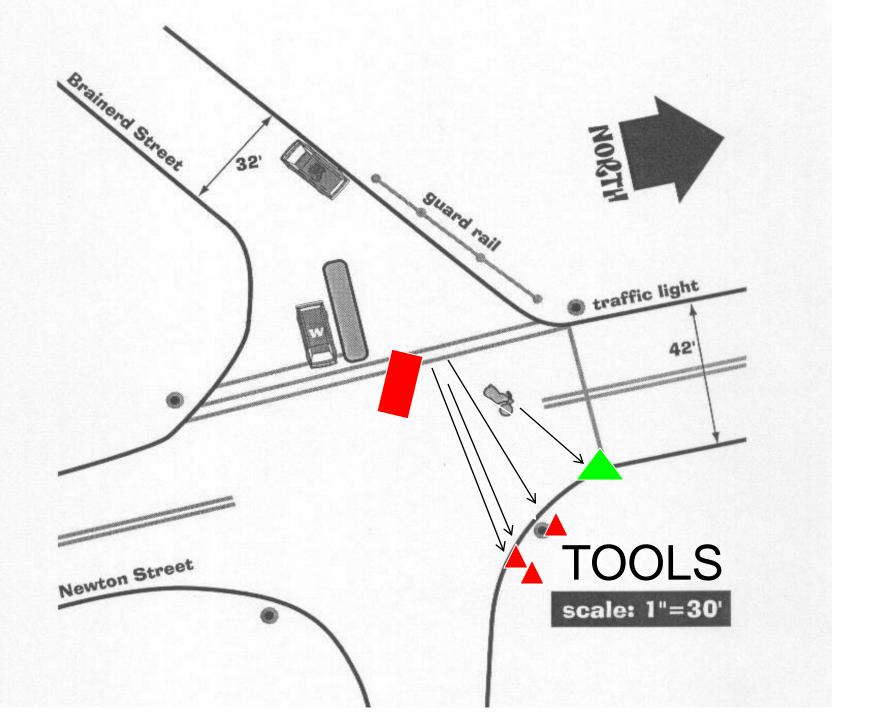
• INFORMATION FROM MEDICAL, AMBULANCE TEAM, EMS, ETC.

INFORMATION FROM THE BAR









Information from the bar?

time the check was paid MC operator was with his girlfriend

science activity:

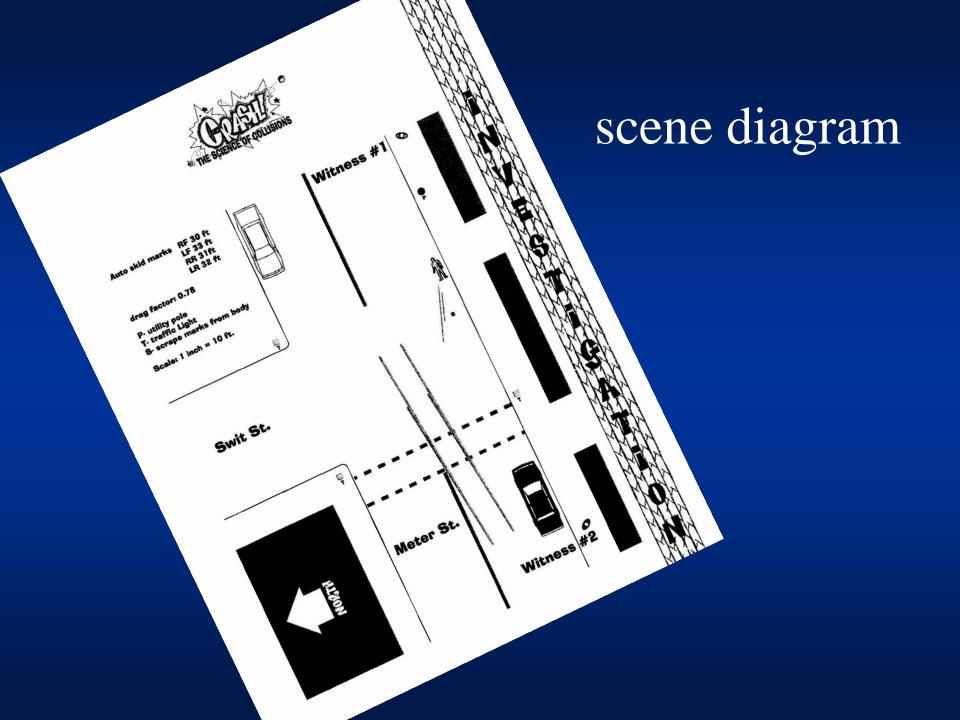
Investigate the crash.

Evidence?

Photographs?

Operator questions?

Witness questions?



Investigate the crash.

Evitable INVESTIGATOR

recrator questions?

Witness questions?



Take Home Activies

© 2013 Legal Sciences

sponsor's message

Take-home activity:

You Can't Afford a DWI

Students and parents are asked to tabulate the costs of a DWI



YOU CAN'T AFFORD A DWI!

CONCEPTS:

YOUR STATE'S DWI LAW CONSEQUENCES OF DWI

MATERIALS:

LIBRARY

BACKGROUND:

If you drink and drive you can be cited for DWI, fined after a court appearance, have your license suspended, be required to attend remedial DWI driving school, etc., etc. The fine may not seem like a large amount of money, but when you total all the costs that result from driving while impaired, if just doesn't pay.

STUDENT ACTIVITIES:

- Have students make a list of all the consequences of being stopped and convicted of DWI, and then consolidate all the lists. This usually makes for extended discussion and student input, and may require outside research of the costs of DWI school, court costs, lawyer's fees, etc.
- 2. Have each student apply the list to him/herself and make a list of the specific costs if he/she were convicted of DWI. Don't forget any lost wages for time spent in DWI school or time lost when the driving license is suspended.
- 3. Have students make a poster showing the cost of a DWI, or even better, submit an article to a local newspaper showing the cost. TV and radio stations might also be interested in your local research, as would S.A.D.D. or M.A.D.D, groups.

sponsor's information



Cost of a DWI - Sample Retrieve car from police impound DWI fine Court cost Loss of wages - court appearance Enrollment in DWI school Loss of wages to attend driving school Towing charge Transportation to/from work during license Insurance surcharge (3 yrs) Attorney fee Bail expense suspension (6 months) Reinstatement of license

\$ 200.00 125.00 50.00 75.00 150.00 100.00 400.00 1000.00 200.00 1500.00 600.00 50.00

Total

\$ 4450.00

There are 12 alcohol-impaired driving activities...

STOP DWI funding can be used to purchase CRASH!

3 DVD's

are included in the CRASH! Toolbox

(Impaired Driver Testing, Sheridan Animation, Crash Testing)

3 CD's

are included in the CRASH! Toolbox\

(The INVESTIGATOR, BACSim, Resources CD)

the Resources CD is a backup, with all police reports, forensic photos, videos, and computer softwares

The message for teachers:

CRASH! motivates kids using real applications of math and science



- aligns with NY state learning guidelines and supports mandated testing
- is used within existing lessons (no new topics are introduced)
- no special teacher training is needed
- no additional time is required

CRASH! overview video (2 min.)

What they say video (2 min.) (students and teachers)

List of activities – handout and online

FAQ's – handout and online

Sheriff's letter – handout and online

Today's presentations - video



Chief Reggie Redfern, Past President New England Assoc. of Chiefs of Police

"When a young driver is killed, the whole community grieves...

now we can do something

before it happens."

Questions?

www.legalsciences.com/crash!/

Do we need a CRASH! kit for each school?

Yes. Each senior and junior high school needs their own CRASH! kit.

Can more than one teacher use the CRASH! kit at the same time?

Yes. Each teacher can print whatever materials they need from the Resources disc.

How long does the CRASH! kit last?

None of the CRASH! materials are consumable, and additional copies can be made from the Resources disc.

What do we do if we lose a video or software disc?

Make another copy from the Resources disc.

kwasnoski@aol.com

www.legalsciences.com/CRASH!