

Child Passenger Safety on School Buses











Handout • Crash Dynamics and Occupant Restraint

STAGES OF A CRASH

Vehicle crash

Human crash

Internal crash







The vehicle crash causes the vehicle to crush and deform.

In the human crash, occupants collide with parts of the interior.

In the internal crash, internal organs are still moving toward the point of impact and collide with bone or other organs.



NOTES

TYPES OF CRASHES

FRONTAL



Image courtesy of the Iowa Pupil Transportation Association



REAR-END

SIDE, LATERAL, T-BONE





ROTATION/SPIN

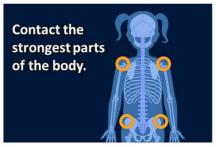
ROLLOVER



Image courtesy of Dean Transportation

BASIC PRINCIPLES OF OCCUPANT RESTRAINT





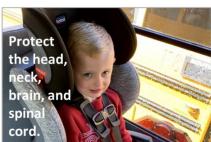






Image courtesy of CChIPS and Injury Biomechanics Research Center (IBRC)

PROGRESS CHECK

- What are three stages in any crash?
- What are the five basic principles of occupant restraint?

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