

Which safety seat is "the best" for my child?

The short answer: The "best" seat is the one that fits your child, fits your car, and fits your family's needs in terms of comfort and convenience, so that you'll use it correctly on every single ride. Try before you buy! For the long answer — read on.

Consider both the age and the size of your child. Follow these general rules:

- Keep babies rear facing as long as possible, at least to age two.
- Keep children in a seat with a harness as long as possible.
- Keep older children in a belt-positioning booster as long as possible. Most children don't fit the safety belt correctly until they're 10-12 years old.
- All children ride in the back seat.

Newborns may ride in a rear-facing-only seat (certified for rear-facing use only from birth or 3-5 lbs. up to 22-40 lbs., depending on the model) or in a rear-facing convertible seat. Convertibles are certified for rear-facing use up to 30-50 pounds and forward-facing use up to 40-85 pounds. It may be more economical to use a convertible seat from birth, but not all models fit tiny babies. Look for a model that has at least four shoulder strap slots and a choice of two or three crotch strap positions. Whether a rear-facing-only seat or convertible is used, the seat is tilted about halfway back (check angle indicator on the side of the seat), and the straps are in slots at or slightly below shoulder level.

Babies should ride rear facing as long as possible to protect the spine and prevent possible death or lifelong disability. Babies have heavy heads and weak necks with soft bones and stretchy ligaments. In a frontal collision, which is the type most likely to cause death or severe injury, a forward-facing baby's neck may stretch up to two inches, but the spinal cord ruptures if it stretches more than one-fourth of an inch. At about one year, the bones start to harden, and the baby gradually becomes less vulnerable. SafetyBeltSafe U.S.A. and the American Academy of Pediatrics recommend rear facing until at least age two, since studies show that children between age one and two are five times safer in a crash when they ride facing the back of the car.

As the baby grows, check the maximum rear-facing weight shown in the instructions of the safety seat. Make sure you can see at least one to one and a half inches of space between the top of her head and the top of the safety seat (the hard plastic, not the puffy fabric). Otherwise, the baby's head may not be fully contained within the seat for best protection in a crash.

Convertible seats have a 5-point harness, which has several advantages for a child of any age or size. The straps are placed on the child's shoulders and low on the hips, so that crash forces are absorbed by the strongest parts of the child's body, not the soft abdomen.

Children over age two

For best protection, children should ride rear facing as long as possible, based on the weight limit shown in the safety seat instructions. Current convertible seats may be used rear-facing up to 30-50 pounds. Most young children are comfortable sitting with their legs bent outward. The head must be at least one inch-to-one-and-a-half inches from the top edge of the plastic shell.

When it is time to turn a convertible safety seat to face forward, based on the child's age and size, it is important to re-read the manufacturer's instruction booklet. In general, the safety seat

should be adjusted to the upright position, the shoulder straps moved to slots at or slightly above shoulder level (check instructions), and the vehicle belt or LATCH* attachments moved to a different part of the safety seat. It is essential that these adjustments be made according to the manufacturer's instructions to prevent possible serious injuries to the child.

Another type of seat for a child who is at least two years old and weighs about 30 pounds, depending on the model, is a forward-facing-only seat with a harness. This type of seat fits up to 40-90 lbs. Current models come with a removable harness and are called combination seats or child seat/boosters. (Some manufacturers call these seats highback boosters, which is confusing, because the term “booster” generally is used to describe a seat for older children that has no harness.) A tall, thin, child may fit in a seat with a harness longer by using a combination seat, which may be taller than a convertible seat and may have higher strap slots. For best protection, use the built-in harness until the child outgrows it. A few child seats cannot be used without the harness.

Some vehicles can be ordered with built-in child safety seats. Many of them may be used with a harness up to 60 pounds. Built-in seats must meet the same standards as comparable products that are not integrated into the vehicles. Others can be modified for use with the vehicle lap and shoulder belt when the child reaches “booster” age and size.

Older children

If a child is ready to stay properly seated without being held in place by a 5-point harness, a belt-positioning booster seat is the next step. The most flexible choice is a booster with a removable, adjustable back that positions the shoulder belt properly. The belt hooks or “arms” keep the lap belt from sliding up on the abdomen. If the child rides in a vehicle with a low seatback and no head restraint, a backrest is needed to prevent possible whiplash in a rear-end collision. A few highback boosters also require vehicle seat support for the child’s head and are unsuitable for use with low back seats. Current boosters are certified for use up to 80-120 pounds, but some children may need a special harness system because they are too wide in the hips to use a booster or because the vehicle seat does not provide head support. Look for a wide or adjustable base if the child is short and chunky.

If the child has a combination seat (a safety seat with a removable harness), it may be used as a booster with the vehicle lap and shoulder belt when he or she outgrows the harness (see instructions for maximum weight). However, some combination seats and highback boosters hold the lap belt up too high and/or push the shoulder belt out of the proper position. The shoulder belt should cross the center of the shoulder and lie on the child’s chest; the lap belt should touch the thighs.

LATCH stands for **Lower **A**nchors and **T**ethers for **C**hildren. Attaching the lower connectors on the booster to the vehicle lower anchor bars is done to prevent an unused booster from becoming a missile in a crash or sudden stop.*

Most children need to use a belt-positioning booster until they are 10 to 12 years old, depending on the child's seated height, the depth of the vehicle seat, and where the safety belt is attached to the car. The child should continue using a booster until he or she can sit all the way back against the vehicle seat with the knees bending comfortably at the edge of the seat cushion. Otherwise, the child may slouch or slide forward to the edge of the seat, which is very dangerous because it brings the lap belt over the child's abdomen. The lap belt should touch the top of the thighs, and the shoulder belt should touch the center of the shoulder and chest. Finally, the child must be able to sit like this for the whole trip.¹

There are now many safety seats with an internal harness and travel vests that provide upper body restraint for children up to 50-90 pounds. Children who are not at least three or four years old or who are very active may not stay put without a 5-point harness system to hold them in place. Booster seats do not work well for these children, because the vehicle shoulder belt does not prevent them from leaning forward or placing the shoulder belt behind the back or under the arm. Older children who ride in cars without shoulder belts in the back seat (pre-1990) also need to use a safety seat with a harness, since booster seats cannot be used with just a lap belt.

Most kids need to ride in a booster seat until age 10 to 12. Using a booster instead of just a safety belt prevents 45% of crash injuries.

If your child isn't using a booster, try the simple test below the next time you ride together in the car. You may find that your child is not yet ready to use a safety belt without a booster.

The 5-Step Test

1. Does the child sit all the way back against the auto seat?
2. Do the child's knees bend comfortably at the edge of the auto seat?
3. Does the belt cross the shoulder between the neck and arm?
4. Is the lap belt as low as possible, touching the thighs?
5. Can the child stay seated like this for the whole trip?

SafetyBeltSafe U.S.A. P.O. Box 553, Altadena, CA 91003	www.carseat.org
310/318-5111	800/745-SAFE (English) 800/747-SANO (Spanish)

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¹ Refer to #630 for the 5-Step Test