


Giant road bike size guide

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Children love to ride bikes. As a bonus, it gets kids fit, gets them outside, offers them some independence, and most of everyone riding is fun. But children don't stay the same size for long. This is why choosing the right bike for your child may initially seem quite confusing, but also crucial to their ability to ride a bike safely and with confidence. If you buy a bike that is too small, your child may feel stupid sitting on it and also feel cramped. Conversely, buying a bike that is too big will be cumbersome, difficult to control, and undermine their youthful confidence on the pedals. Use the size chart below to find out how children's bikes are measured and defined, and better know what you're looking for when buying a particular bike. It is important to know that children's bikes are measured using the outer diameter of the tire (diameter). This is in contrast to adult bikes, whose measurements refer to frame size. Guide to Kid's Bike Sizes Age Baby Height Tire Diameter (Outside) Age 2 - 5 26 - 34 inches 12 inches Age 4 - 8 34 - 42 inches 16 inches Age 6 - 6 - 9 42 - 48 inches 18 inches Age 8 - 12 48 - 56 inches 20 inches Youth 56 - 62 inches 24 inches One of the real problems in buying a child's bike, knowing that they would outgrow it soon after how they get it. So you're faced with a dilemma. Are you buying a good bike that will probably be too small? Or do you get a large clunker box, a cheap and temporary solution? In this case, you hope that the bike does not fall apart or otherwise be such a bad choice that it turns your child on a bike altogether. This is a question with no simple answer, but perhaps a few different options that you can explore to help yourself. First, do you have other children, older or younger, what bikes can be passed through? If so, it makes the question a lot easier about whether to spend money on a decent bike. How about an extended family, cousins and the like? Are there families next door to the kids that you can maybe create some kind of bike sharing with? Another option is resale. If you have connections with other cyclists who have children, they are more likely to know and appreciate the value of a good bike. Offering it for sale, just as you would bike for adults, is a good way to recoup some of your investment. Finally, some bike stores and online stores (including Performance Bike) offer programs for people buying children's bikes. The basic premise is that when you buy a child's bike, you get either guaranteed trade-in value on an old bike when it and/or straight discounts on future bikes as the child continues to move through bikes in larger sizes. When you buy a road bike, size is crucial. Choose a bike frame that is too small and you will be uncomfortable when you drive. Get the size too big and the bike can become difficult Safe. It's easy to know which size of a road bike is best for you. All you need to know is the length of your inseam and how tall you are. Look for your height and length of sema to find the right size of the bike frame. You may find that your height and insecurities do not match the size of a single road bike. If so, go with the measurement of issemia. This is a more reliable of two factors. Determining your road bike frame size Height Inseam Bike Length Size 4'10 - 5'1 25.5 - 27 46 - 48 cm 5'0 - 5'3 26.5 - 28 48 - 5'0 cm 5'2 - 5'5 27.5 - 29 50 - 52 cm 5'4 - 5'7 28.5 - 30 52 - 54 cm 5'6 - 5'6 - 5'6 9 29.5 - 31 54 - 56 cm 5'8 - 5'11 30.5 - 32 56 - 58 cm 5'10 - 6'1 31.5 - 31.5 - 9 33 58 - 60 cm 6'0 - 6'3 32 5 - 34 60 - 62 cm 6'2 - 6'5 34.5 - 36 62 - 64 cm Remember : Despite the fact that height and uncertainty are measured in inches in the U.S., the size of road bikes are always given in centimeters. Once you know your correct bike frame size, it's time to find the model that feels most comfortable to ride. The only way to do this is to visit several bike shops and take some bikes for a test ride. Be sure to talk to the staff as they can help you find the best bike for your needs and budget. If you are a casual recreational cyclist, you will need a different bike than someone who races competitively on weekends. Start by sitting on the seat. It should feel comfortable as you sit and you should not feel like you have to stretch your legs too far to reach the pedals. Get in the wheel. You should be able to reach them comfortably without hunched over them or stretching your arms out. Notice the pads on the steering wheel and how they feel. Are they spongy or stiff? Solid surfaces can tire your hands over long trips. Look at the pedals. The metal ones are more durable than plastic. Some higher-end highway bike pedals have cages for wearing or clips for wearing. Whether you're building a bike from scratch or buying a high-quality model, you're stuck with tires, brakes, gears and other components that come with a bike. This is normal, especially if you are a beginner or a casual rider. Your choice will be largely dictated by cost, but it is worth considering the components. The frames are made of aluminum, steel, titanium and carbon fiber. Most bike frames are made of aluminum, which is lightweight and durable. You'll find steel frames on old bikes or custom assemblies; steel is heavier and tougher than aluminum. Titanium and carbon fiber frames offer the best features of aluminum and steel, but they are also more expensive. The brakes do the same job they do by Car: Stop you from moving. Cheaper bikes have a brake rim, while the best models have disc brakes. Disc brakes are the best choice because they are easier to control and more powerful. Gears will help you adjust your speed to the road. Most road bikes have 27 gears (or speeds), although you can some of them with 20 gears. You're shifting gears with your hands. Depending on the manufacturer, the changer may be the lever you adjust with the thumb and forefinger or handle on the handle that you rotate, although they are less common. Don't get discouraged if you don't find what you're looking for in the first bike store you visit. Most dealers carry only a couple dozen or so major brands sold in the U.S., and some are exclusive to a single manufacturer. When it comes to buying a new bike, decision No.1 determines what type you want. The choice may seem intimidating given the number of options, but it's important. Bringing a road bike on the trail will be like wearing dress shoes in your workshop: funny and potentially dangerous. Good news? Our test editors ride a lot of bikes of all different styles, and this list includes some of their favorites.Compared to the decades-old set of wheels you could have in the garage, today's bikes are designed to roll faster and ride smoothly. Some even have electric motors to help you pedal. And high performance doesn't always come with the same high price. Most of the bikes on this list are under \$1,500, and some are even less than a thousand. If you have been rolling for years and need to upgrade or join the bike now boom, there is a bike for you. Read quick reviews of the five popular bike styles below and then keep scrolling for purchase tips and in-depth reviews of these and other most effective picks. Road Electric Fixie Hybrid Gravel Components to considerWhy you ride for fitness, fun or utility, the bike you are on is, first of all, the machine. Brands design bike parts for maximum efficiency and riding experience. Some of these components dictate the bike is best used and generally feel bigger than others, and it is worth paying special attention to as you shop. Keep in mind you can often update the parts after purchase. The Frame MaterialThe core of the bike is its frame that can be made of aluminum, carbon fiber composite or steel. Aluminum spreads in frames because it is affordable and balances strength with weight. It is the perfect choice for mountain and adventure bikes and is widely used in entry-level models of all styles. Carbon, largely used among road bikes, is prized for its lightness, stiffness and customization (i.e. how easy it is for designers to make micro frame design adjustments). Weight savings and detailed design will cost you, however. Most carbon frames are over \$2,000. Steel is heavier and rarer than before, but its and smooth riding make it a favorite for all apps and especially popular in adventure bikes and fixers. GearingLike car transmission, the transmission-directed bike is dedicated to finding the right mechanism for the situation. The more gear the bike has, the better fit fits to climb the hills, but it will be harder. Smaller gears make the bike easier to maintain, but you may find yourself trying to get around if you're traveling on flat ground or helping off an electric motor. The range of gears is determined by the number of chains (installed by the pedal), the number of cogs in the cassette (placed on the back node) and the size of these parts. (In our list below, we express the range as a formula: chain time cogs.) Bicycles can have one to three chains and usually seven to 12 cogs. The model with one chain and eight cogs is called an 8-speed model. If the same bike had a second chain, it has 16 gear settings, but in practice, some of these parameters perform the same way. That's why you don't hear people treat 16-speed bikes. Single speed and fixed gear bikes have only one chain and one cog. (The first allows the coast, while the fixie requires constant pedals.) Some commuter bikes have internal hubs instead of cassettes, which prevents rusty transmission when your bike is regularly exposed to items. These airtight gear systems use a strap instead of a chain. They are exceptionally quiet and require little service. Compromise - overweight and a little higher cost. As for the size of the cogs, the greater the difference between the number of teeth in the smallest and largest cogs, the easier the bike will travel through a variety of terrain. The 11-46t cassette is more typical of a mountain bike, while an 11-32t is at home on a commuter or road bike. The brakes sit in the center of each wheel. Hydraulic disc brakes use fluid to slow down your wheels and deliver powerful, consistent performance stoppages. It is useful in smooth conditions like a wet pavement. But the complexity of hydraulic systems leads to an increase in the cost of and requires skilled bike mechanics for maintenance. Mechanical disc brakes function in a similar way, but are caused by a cable, not a hydraulic fluid. This makes the pull level more difficult, but the trade-off is a lower price and simpler maintenance. And the old-school rim brakes use wicketkeepers to squeeze the wheel on the rim. They are easier to maintain and reasonably priced, but don't provide as much power stopping and can feel a little goeey. Finally, there are coaster brakes that bring you a stop when you change the stroke pedal. You can remember them from your childhood bike. Today you will come across them only on beach cruisers. TiresMost bikes have clincher tires with inflatable internal pipes that can be prone to flats. To combat this, Mavic has developed the first tubular tire over two back, and since then the technology has spread. These tires remain inflated by a layer in the body of the tire or liquid sealant, which is added to make the rubber impervious to airflow. Versions that need only sealant are called tube-free versions. (It's not to be confused without a tube ready disks, which indicates that the wheel can run on a tubular system.) As for size, tires are classified by two dimensions - diameter and thickness, which are expressed in inches or millimeters. Most tires have a diameter of 700 mm or 27.5 inches, but the thickness is less prescribed. The wider tyre provides more traction and smoother driving, but adds weight. It's worth it when you're crushing gravel, bombing down trails, or fat cycling in winter, but to a lesser extent if you're on paved surfaces. Bike Fit and AccessibilityFor the most comfortable and efficient ride, you need a bike that fits. But you can use your height to get a rough idea, but companies have their own (often bike-specific) size guides that you should always link before buying. To meet small frames, companies sometimes make women specific models or sizes that have a more compact frame with a shortened, sloping upper tube. A lot of unisex frames fit women's bodies just fine, but if you feel stretched out, a bike with female geometry is worth checking out. Ride Essentials Face Mask Lights Cycling Computer Lock Pack If you've been looking for a bike in the last few months, you've probably noticed many models in stock. Bike sales are booming this spring at the start of many state housing on-site orders. For some, bikes have become the safest mode of transport. Others have discovered a new hobby, sanity-saving outdoor escape method, or just doing something when your Netflix turn becomes thin. Inventory stays low, so don't be surprised if you see off-stock or pre-order notifications. You may have to wait weeks or months, visit your local bike shop, or look for other online stores before bringing your new bike home, but your patience and perseverance eventually pay off. We promise to help you by keeping an eye on inventory and link updates as often as we can. As we tested Our test editors ride 365 days a year, estimating hundreds of bikes in the process. We score them on our mountain bike test loops, power our steep roads and gravel climbs, bomb our favorite Strava segments, and use them exactly as you would-race (in the era before COVID-19), weekday rides, and runs to the grocery store to pick up lunch. We also make it a habit to weigh our test bikes, although we missed a few on this list and went back to the numbers presented by the manufacturers. For each bike, we evaluate performance, price, comfort, handling, quality, aesthetics, and level of enjoyment compared to similar styles. These 11 impressions are enough to finish on this list and Excellent Performance Where You Ride.-For Road Rider-Motobecane Immortal SpiritFrame Material: Carbon Gearing: 2 x 11-speed Brake: Tektro R540 Tire Rim: Continental Ultra Sport II 700 x 25c Tested Weight: 20.8 lb. (47cm) Motobecane is The brand is known for bikes that are highly valued in the value department, and Immortal Spirit is no exception. The carbon frame and fork keep the weight low, and the vibrational carbon damping quality make it comfortable for long trips as well as stiff and responsive input from the pedals. Factor in the price, and this bike is great for active riders and novice riders alike. Some may be honed on the brake rim, but it's a trade-off for the sake of the carbon frame and 11-speed cassette-high-end features that are usually not found on the bike at this price. Saddles are often a overlooked component, but our tester was impressed by Velo's Immortal Spirit. She noted that it was convenient not only while wearing soft cycling shorts, but also when riding without.-Bobby Lea, Gravel Test Editor Crusher-Canyon Grail CF SL 7.0Frame Material: Carbon Gearing: 2 x 11-speed Brakes: Shimano SLX RT70 Drive Tires: Schwalbe G-One Blie 40 mm Tube Tested Weight: 18.4 Pounds (W XS) For those who have ever ridden for hours on gravel roads, you will surely, surely, Have reached this familiar point where your triceps are sore, your shoulders are starting to feel a little battered, and your hands turn swaying or numb. The innovative double-bar of the Canyon at Grail postponed these grinding symptoms all day long. The flexion of the upper part softened our upper body when the ground was rough, and the tougher drops gave control and confidence on the fast, technical descents. Available in the women's version, the carbon adventure bike was also sprightly and responsive on the sprint, and the Schwalbe tires have a low enough rolling resistance that they didn't keep us on the road. (For greater stability, swap in 42 mm tires.) If you want to feel fast and in control on the road, gravel, and hand-held singletrack, and manage your comfort on bumpy terrain, this is the bike for you.-Riley Missel, Test Editor-For Speed Demon-Aventon Pace 500Frame Material: Aluminum Gearing: 1 x 8-speed Brakes: Tektro HD-T285 Tire Hydraulic Drive: Kenda Kvik Seven Sport 27.5 x 2.2 Tested Weight: 48.9 lb (M) For a truly lightning-fast ride, turn to 500. As soon as we turned the cranks, the Pace 500 jumped off the line like an ant kid to hunt an Easter egg. The City Electric Bike has five levels of pedal to help topping at 28 mph. The 500 also packs a thumb-running throttle that held steady (and steady we mean hovering) between 19.7 and 20.2 mph. When we pressed the brakes, it cut out like a cruise-control car. Having that throttle was nice on low-traffic roads, but it's less useful on the streets of a city where braking is constant. It is a 750-watt rear engine hub and is a semi-integrated battery with a range of about 40 mile-on-down tubes. Illuminated display unit on the stem showed a dizzying amount of information, most importantly, how much juice we had left, but it was easy to read. Also available with a step-by-step frame, the bike itself has a swept back steering wheel, ergonomic handles, a saddle the size of a Texas, a sturdy stand, and a fast-rolling electronic bike-rated tire that struggled only on crispy leaves over frozen dirt. It is not equipped with wings or rear rack, but you can add them. But one of the most impressive features is the price. At \$1,400, it's proof that good e-bikes no longer accumulate on unattainable wish lists; they're finally becoming a reality for the masses.-Jennifer Sherry, Deputy Director of Test-for Commuter-Spot AcmeFrame Material: Aluminum Gearing: 1 x 11-speed Brakes: Hydraulic Drive HD-M275 Tires: Small Unit Eight 700 x 32c Tested Weight: 26.5 pounds (55cm) Acme fast as a road bike, sturdy as a mountain bike, and smooth as a Cadillac. It is as capable for slow, solo cruisers as it is for fast, fitness. A flat bar and stamina-like geometry put us in a more aggressive position than a vertically urban bike, but we never felt Acme needed to go fast. From top to bottom, from front to back, each part on this modest commuter bike is matched for quality: Alex rims, Cane Creek headset, Gates CenterTrack belt drive, Kenda tires, Shimano shifters, SRAM brakes, Spot-brand leather saddle and handles. Another cool feature? Acme is equipped with the front hub Shimano Dynamo, which automatically charges the headlights (lights that you buy separately) connected by internal cable routing through a carbon fork. All these components make it a larger investment than some urban bikes, but the return is in durability. It's a solid, humble bike that doesn't compromise quality and comfort, saving on, well, anything.-Jennifer Sherry, deputy test director for Fixie Fanatic-Retrospec HarperFrame Material: Steel Gearing: Single Speed Brake: Rim Promax Tires: Kenda City Tires 700 x 28c Claimed weight: 25 pounds. You won't find a cheaper starter fixie than this, but Harper still ticks all the important fixed gearboxes. The bike comes with brakes and flip-flop hub for fixed gear or single ride speed. With a vertical riding position, thick tires, and a sturdy steel frame, this is the perfect ride for commuting and cruising. In addition, Retrospec offers bikes in five sizes and six colors, so you can personalize it.-Dan Roe, Test Manager-For Coastal Cyclist-Priority Coast 3-SpeedFrame Material: Aluminum Gearing: 1 x 3-speed Brakes: Ring and Coaster Tires: Kenda Puncture Sustainability 26 x 2.1 Weight: 30.3 pounds. The salty air does not match the rust components of the coast, which include stainless steel spokes, an aluminum frame and fork, as well as maintenance of the Gates Carbon Drive belt (which accompanies companies Shimano Nexus 3-speed internal hub). Sealed bearings have no water, and Kenda tires resistant to punctures are hardly embarrassed by broken glass and cots. On sidewalks and city road levels, we rolled at a faster pace in the most challenging gears, and on small slopes, we took advantage of a little lighter pedals. However, this bike is in no hurry. We often found ourselves barely hanging on the cruiser-style steering wheel, using only fingers on one hand to guide the bike along and even turn the corners. And the super-wide saddle (10 inches in its widest part) is so comfortable it's like surfing your favorite chair, as long as you keep rides relatively short. Although there is a front brake on the left side, laziness has forced us to coaster-brake converts. The coast is available with a step-by-step or traditional frame, although the latter will not fit short riders.-Jennifer Sherry, Deputy Director of The Test-for Cargo Pulling-Rad Power Bikes RadWagon 4Frame Material: Aluminum Gearing: 1 x 7-Speed Brakes: Mechanical Drive Tektro Aries MD-M300 Tires: Rad Power Bikes 22 x 3 Claimed: 73 The \$1,500 fully loaded e-truck bike seemed too good to be true, but RadWagon faces competitors who cost thousands more. The 750-watt Shan's direct drive hub engine provides a powerful pedal assist on a much quieter drone than the mid-drive engines used on most electronic cargo bikes; its only downside is there isn't quite as much torque, but we only noticed on the steep hills. The throttle allows us to ride a bike like a scooter, and we average 35 miles on charge from a 48-volt battery (you'll probably get over 40 mostly on flat routes). The RadWagon is 79 inches long and weighs as much as a 10-year-old, but despite being an absolute beefcake, it handles remarkably well. We beat him around an abandoned golf cart track and didn't scratch the back foot platforms against the ground, a good sign for low handling speed. Integrated front and rear lights, wings and stand are standard, and we had no problems with the 7-speed Shimano Altus transmission or the Tektro's mechanical drive brakes. It's a lot easier to charge \$5,000 or more for an electronic cargo bike, when you market it as a replacement car, but RadWagon proves that you can make your car basically obsolete for the price of an electronic bike rather than another car.-Dan Roe, test manager-To start Racer-Trek Domane AL 2Frame Material: Aluminum Gearing: 2 x 8-speed Brakes: Double Rim Tire: Bontrager R1 Hard-Case Lite : 22.1 pounds courtesy TrekDomane AL 2 \$859.99Shop NowThe good look domane AL 2 the first sign that Trek isn't messing around with this \$860 bike. Start digging deeper and you'll find even more like. The shape of the aluminum frame is beautifully made and has the vibration of a damping carbon fork. The rims are without tubular ready, so you can to smooth out rolling tires filled with puncture sealant, and they are hugged for smoother braking. Speaking of brakes, they have a light pull and a hard bite on the rim-not vague mushiness here- and provide the best slowing and stopping performance we've ever sampled on a sub-\$1,000 bike. The shifters snick-snick transmission through the gears is easy and clear. There are other little amazing nuggets like the pocket in the frame for the speed sensor and included light and computer grier that purely integrates into the stem. Best of all, the bike is a joy to ride. The handling is stable, accurate and attentive to the pedal strokes, so you feel like you are flying down the road, not pushing through it.-Bobby Lea, Test Editor-For Go-Anywhere Rider-Specialized Sirrus 4.0Frame Material: Aluminum Gearing: 1 x 10-speed Brakes: Hydraulic Drive Shimano BR-MT200 Tires:Fin Pathder Sport 700 x 38 mm Tested Weight: 23.3 Pounds (S) If you're looking for a hybrid bike, which is so fun to ride as it is utilitarian, consider the specialized Sirrus X 4.0. The 38mm-wide Pathfinder Sports tires have a knobby side to turn and a flat strip down the middle to roll fast on the sidewalk. Carbon fork, wide tires and suspension steering smooths the ride. A wide range of gear plus rack and wing mounts means you can haul your stuff, even where it's hilly. It's fast and manoeuvrable, making it ideal for quick city commutes and efficient running errands. To expand its capabilities, Specialized added a 38mm gravel tire and its Future Shock, rubber immates coils kick over the headset with a 20mm journey to help absorb any front tire impact. These add-ons, as well as the carbon fork, Help smooth your ride on any road.-Riley Missel, Test Editor-For Trail Ripper-Cannon Bad Habit 2Frame Material: Aluminum Gearing: 1 x 11-speed Brakes: Shimano MT 400 Tire hydraulic drive: Maxxis Rekon 27.5 x 2.8 without Tube Ready Tested Weight: 33.3 Pounds (XL) Courtesy of CannondaleBad Habit 2 \$2,625.00Shop NowThe Habit Bad is a plus-tire version of Cannondale's best-ever bike suspension Habit. Instead of 29er wheel habits, Bad Habit gets 27.5 wheels wrapped with 2.8-inch tires for more traction, better flotation, and a more confident kicking and stable feel. Bad Habit geometry is modern, though not as crazy as some of its competitors, which helps it to cope better in slower terrain. And it climbs much better than you think the 33-pound bike trail should, which is crucial if you're not a lift service kind of rider. The 140mm RockShox Sektor RL fork has a compression adjustment handle that is easy to reach while riding. Instead of a complete lockout, you can micro-tune the compression on the fly as well push it all the way to WFO when you're ready to pluck mountains. The low bottom bracket makes it his To get more technical features such as logs and large stones while climbing, but once you are used to minimal clearance the pedal becomes easier to manage. And with an aluminum frame and big chunks of money, it's plus the bike costs money.-Bobby Lea, test-editor-for-adrenaline-salsa-Timberjack NX Eagle 29Frame Material: Aluminum Gearing: 1 x 12-speed Brakes: hydraulic drive level SRAM Tires: WTB Trail Boss 29x2.6 Tested Weight: 30.8 pounds (L) Timberjack The adventure is a ready aluminum hee-wheeler that will run a 29-inch or plus-size 27.5-inch wheel. Short chain nets keep it nimble in difficult situations, while the longer upper tube provides stability. The bike felt a little long over the slow speed, technical sections, but the long and sluggish layout gave quick descents. We were surprised at how competent he had crashed into the big rock gardens at speeds that we'd already reserved for a full bike suspension; we didn't feel our trail selection was limited by the lack of rear suspension at all. For the NX build, Salsa gives you a RockShox Sektor RL fork with 130mm travel enough for most trips along the trail. The NX SRAM transmission components provide a clear shift, and the bike comes with wheels without pipes. Timberjack has internal cable routing and mounts for the back rack for easy bikepacking or any adventures you plan. Salsa's Alternator dropout make it possible to run Timberjack as a single speed, too.-Dan Roe, Test Manager giant liv road bike size guide

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