Your best defense against sports related dental injury and concussion.

Defender Mouthguards are custom fitted to the athlete's mouth through the use of our Self Impression Kit. After an impression is taken, it is sent to our laboratory for custom fabrication of the mouthguard. Multiple layers of mouthguard material are laminated directly over a stone model of the athlete's teeth, using high heat and pressure, providing the best overall fit and protection. The number of layers used and the thickness of each layer are based upon the Defender Model you select, and the level of protection you seek. To control layer thickness, Defender Mouthguards are hand finished one layer at a time, after each lamination. Other custom mouthguards are made from one continuous multilayered lamination process, resulting in a bulky and uncomfortable mouthguard.

The Defender Varsity offers 2 layers of protection on the front surfaces of the teeth to protect against a direct impact (stick, ball, or body contact); 2 layers of protection on the chewing surfaces for concussion protection; with only 1 thin layer on the palatal surface to allow for easy breathing and clear communication. This thin layer is called the Streamline Design, and is unique to Defender Mouthguards. The Defender Varsity provides 5 millimeters of concussion protection.

The Defender Pro also offers 2 layers of protection on the front surfaces of the teeth to protect against a direct impact, and also includes the Streamline Design. However, we include a third layer on the chewing surfaces of the teeth for greater concussion protection. This model is strongly recommended for athletes who have already experienced a concussion. The Defender Pro provides 6 millimeters of concussion protection.

**Defender Mouthguard Protection**

A) Multi-layered construction absorbs shock and keeps mandible in an open position  
B) "Pocket of Protection" is maintained between mandible and base of skull  
C) Helps prevent mandible from impacting base of skull and Temporal Lobe of the brain  
Result: **Concussion Protection**

**"Off The Shelf" Boil and Bites**  
A) Insufficiently protected upper and lower teeth are in close contact with each other  
B) Joint of Mandible is in close contact with base of skull… TMJ is "locked and loaded"  
C) Impact to lower jaw will deliver a damaging blow to the Temporal Lobe of the brain  
Result: **Potential Concussion**
**The Unprotected Athlete**

A) Upper and lower teeth are in direct contact with each other  
B) Joint of mandible is in contact with base of skull... TMJ is "locked and loaded"  
C) Impact to lower jaw will deliver a damaging blow to the Temporal Lobe of the brain  
Result: **Potential Concussion**

Just like a helmet is part of a uniform, your mouthguard should be too. Team Orders are a great way to keep athletes in uniform and save money through our Team Discount Program. Team Orders of 15 or more athletes will receive a 10% Team Discount, while Team Orders of 30 or more athletes will receive a 15% Team Discount. Defender Mouthguard Representatives are available to supervise Team Fittings depending upon order volume and location. A $20 deposit, per athlete, will be required in order to solidify your supervised Team Fitting.

**FAQs**

**Does the Defender Mouthguard work with braces?** The Defender Ortho Mouthguard is the only true custom fit mouthguard designed to fit over orthodontic braces. Our proprietary orthodontic impression technique allows the brackets and wires to be accurately reproduced on the stone model of the athlete's teeth. The model is then specially modified to allow the mouthguard to be laminated directly over the teeth without interfering with tooth movement or relying on the brackets for retention of the mouthguard. Our ortho mouthguard is Passive Retentive, which allows for the movement of the teeth that are involved in the orthodontic treatment.

**What is the lifespan of a Defender Mouthguard?** The life expectancy is based upon age of the athlete (younger athletes have dentition that changes more frequently than older athletes), care of the mouthguard and frequency of use. The Academy of Sports Dentistry recommends that mouthguards should be replaced annually to maintain the best protection and fit. Defender Mouthguards has athletes whose mouthguards have lasted over two years. Please keep in mind, these mouthguards provide the fit that prevents the athlete from dangling the mouthguard out of his/her mouth and chewing it apart.

**Can athletes easily chew the Defender Mouthguard?** Defender Mouthguards are built to withstand all chewing forces when the mouthguard is worn properly. Most athletes who chew their mouthguards do so because their mouthguards don't fit well, and the athlete needs to clench down to keep them from falling out. Unfortunately, most mouthguards on the market today are so bulky that they interfere with breathing and speech. It is because of this athletes dangle the mouthguard from the side of their mouth (fish hooking) and the chewing habit begins. Although this is a habit that is hard to break, the fit of the Defender Mouthguard will keep it in place, making it easier to breathe and help the athlete to break the chewing habit.

**How can I order now at the team price if my child is coming out of braces very soon?** You can order and take home a Defender Self Impression Kit at the time of the team fitting at the team discounted price. In
order to purchase a self impression kit, please contact us directly so that we can provide one at the team fitting. When the athlete's braces come off you will take the impression at home using our instructional DVD to guide you.

For more information visit www.DefenderMouthguards.com