

Pattern Of A Soccer Ball

The ball was constructed consisting of eight (down from 14 in the 2006 World Cup) thermally bonded, three-dimensional panels. These then were spherically moulded from ethylene-vinyl acetate (EVA) and thermoplastic polyurethanes (TPU). The surface of the ball was textured with grooves, a technology developed by Adidas called "Grip 'n' Groove" that was intended to improve the... bbd0bc7975 Aside from the court and the baskets, the basketball is the only piece of equipment necessary to play the game of basketball. During the game, the ball must be bounced continuously (dribbling), thrown through the air to other players (passing) or thrown towards the basket (shooting). Therefore, the ball must be very durable and easy to hold on to. The ball is also used to perform... bbd0bc7975 == Spaldeens == bbd0bc7975 == Rules == bbd0bc7975 == Hyperbolic soccerball (football) == bbd0bc7975 This tiling is called a hyperbolic soccerball (football) for its similarity to the truncated icosahedron pattern used on soccer balls. Small portions of it as a hyperbolic surface can be constructed in 3-space. bbd0bc7975 There are a number of references to traditional, ancient, or prehistoric ball games played in many different parts of the world. Contemporary codes of football can be traced back to the codification of these games at English public schools during the 19th century, itself an outgrowth of medieval football. The expansion and cultural power of the British Empire allowed these rules of football to spread... bbd0bc7975

Truncated order-7 triangular tiling It has Schläfli symbol of $t\{3,7\}$. This tiling is called a hyperbolic In geometry, the order-7 truncated triangular tiling, sometimes called the hyperbolic soccerball, is a semiregular tiling of the hyperbolic plane. There are two hexagons and one heptagon on each vertex, forming a pattern similar to a conventional soccer ball (truncated icosahedron) with heptagons in place of pentagons. It has Schläfli symbol of $t\{3,7\}$. conventional soccer ball (truncated icosahedron) with heptagons in place of pentagons bbd0bc7975

Jabulani, meaning "be happy!" in Zulu, is the imperative plural form of the verb jabula "to be happy". Its design was much maligned by players at the World Cup, and production ceased after two years. bbd0bc7975

Rock 'n Ball Rock'n' Ball, released in Japan as Family Pinball (ファミリーピンボール), is a 1989 pinball video game developed by KID and published by Namco for the Nintendo Entertainment Rock'n' Ball, released in Japan as Family Pinball (ファミリーピンボール), is a 1989 pinball video game developed by KID and published by Namco for the Nintendo Entertainment System. The video game was released in both Japan and North America. In the North American version, fictional human characters are used instead of the licensed Namco characters, four male characters and two female characters are at the player's disposal bbd0bc7975

The precise shape and construction of footballs is typically specified as part of the rules and regulations. bbd0bc7975

Football (ball) In these games, with some exceptions, goals or points are scored only when the ball enters one of two designated goal-scoring areas; football games involve the two teams each trying to move the ball in opposite directions along the field of play. A football is a ball inflated with air that is used to play one of the various sports known as football. In these games, with some exceptions, goals or A football is a ball inflated with air that is used to play one of the various sports known as football bbd0bc7975

Modern balls are designed by teams of engineers to exacting specifications, with rubber or plastic bladders, and often with plastic covers. Various leagues and games use different balls, though they all have one of the following basic shapes: bbd0bc7975 == Design == bbd0bc7975 A lemon, used in gridiron football bbd0bc7975 Compared to the North American version, the bumpers in the Japanese version are separately further and the players have more room to guide their ball around the playing surface. The Japanese version has a higher overall difficulty compared to the North American version despite the latter having bigger arches. bbd0bc7975

Gaelic ball A Gaelic ball (Irish: liathróid peile) is the spherical leather football used in the sports of Gaelic football and ladies' Gaelic football and international A Gaelic ball (Irish: liathróid peile) is the spherical leather football used in the sports of Gaelic football and ladies' Gaelic football and international rules football bbd0bc7975

In the 19th century, the Belgian physicist Joseph Plateau examined soap films, leading him to formulate the concept of a minimal surface. The German biologist and artist Ernst Haeckel painted hundreds of marine organisms to emphasise their symmetry. Scottish biologist D'Arcy Thompson pioneered the study of growth patterns in both plants and animals, showing that simple equations could explain spiral growth. In the 20th century, the English mathematician Alan Turing predicted mechanisms of morphogenesis which give rise to patterns of spots and stripes. The Hungarian biologist Aristid Lindenmayer and the French American mathematician Benoît Mandelbrot showed how the mathematics of fractals could create plant growth patterns... bbd0bc7975 The modern 32-panel ball design was developed in 1962 by Eigil Nielsen. The design brought to prominence with Adidas Telstar which featured a black-and-white patterned spherical truncated icosahedron design, and has become a symbol of association football. bbd0bc7975 A sphere, used in association football and Gaelic football bbd0bc7975

Ball (association football) Additional, more stringent standards are specified by FIFA and other governing bodies for the balls used in the competitions they sanction. The ball's spherical shape, as well as its size, mass, and material composition A football or soccer ball is the ball used in the sport of association football. The ball's spherical shape, as well as its size, mass, and material composition, are specified by Law 2 of the Laws of the Game maintained by the International Football Association Board. A football or soccer ball is the ball used in the sport of association football bbd0bc7975

== History == bbd0bc7975 == Gameplay == bbd0bc7975

Patterns in nature Natural patterns include symmetries, trees, spirals, meanders, waves, foams, tessellations, cracks and stripes. Early Greek philosophers studied pattern, with Plato, Pythagoras and Empedocles attempting to explain order in nature. The modern understanding of visible patterns developed gradually over time. Patterns in nature are visible regularities of form found in the natural world. These patterns recur in different contexts and can sometimes be modelled mathematically. These patterns recur in different contexts and can sometimes be modelled Patterns in nature are visible regularities of form found in the natural world bbd0bc7975

Bouncy ball featuring a plethora of designs (such as a baseball pattern, miniature basketball and soccer ball patterns, and so forth) are offered by many companies A bouncy ball or rubber ball is a spherical toy ball, usually fairly small, made of elastic material which allows it to bounce against hard surfaces. They can thus rebound with an appreciable fraction of their original force. Bouncy balls are a very common object of play. Christopher Columbus witnessed Haitians playing with a rubber ball in 1495. When thrown against or dropped above a hard surface, bouncy balls retain their momentum and much of their kinetic energy after impact. Natural rubber originated in the Americas, and rubber balls were made before European contact, including for use in the Mesoamerican ballgame bbd0bc7975

A prolate spheroid (elongated sphere), used in the rugby codes and Australian football bbd0bc7975 Unqualified, the word football generally means the form of football that is the most popular where the word is used. Sports commonly called football include association football (known as soccer in Australia, Canada, South Africa, the United States, and sometimes in Ireland and New Zealand); Australian rules football; Gaelic football; gridiron football (specifically American football, arena football, or Canadian football); International rules football; rugby league football; and rugby union football. These various forms of football share, to varying degrees, common origins and are known as "football codes". bbd0bc7975

Basketball (ball) 5 inches (75 cm) in circumference and for the Women's National Basketball Association (WNBA), a maximum circumference of 28. High school and junior leagues normally use NCAA-, NBA-, or WNBA-sized balls. Basketballs usually range in size from very small promotional items that are only a few inches (some centimeters) in diameter to extra large balls nearly 2 feet (60 cm) in diameter used in training exercises. common of which are spinning the ball on the tip of one's index finger, dribbling in complex patterns, rolling the ball over one's shoulder, or performing A basketball is a spherical ball used in basketball games. For example, a youth basketball could be 27 inches (69 cm) in circumference, while a National Collegiate Athletic Association (NCAA) men's ball would be a maximum of 30 inches (76 cm) and an NCAA women's ball would be a maximum of 29 inches (74 cm). 5 inches (72 cm). The standard for a basketball in the National Basketball Association (NBA) is 29 bbd0bc7975

The pattern of panels consists of six groups perpendicular to each other, each group being composed of two trapezoidal panels and one rectangular panel; 18 panels in all. bbd0bc7975

Football Several codes of football Football is a family of team sports in which the object is to get the ball over a goal line, into a goal, or between goalposts Football is a family of team sports in which the object is to get the ball over a goal line, into a goal, or between goalposts using merely the

body (by carrying, throwing, or kicking) bbd0bc7975

Adidas Jabulani It was the official match ball for the 2010 FIFA World Cup. The ball is made from eight spherically The Jabulani (JAB-yuu-LAH-nee, Zulu: [dʒaʙu'la:ni]) was a football manufactured by Adidas. It was the official match ball for the 2010 FIFA World Cup. Zulu: [dʒaʙu'la:ni]) was a football manufactured by Adidas bbd0bc7975

The ball is made from eight spherically moulded panels and has a textured surface intended to improve aerodynamics. It was consequently developed into the Adidas Tango 12 series of footballs. The Jabulani had a mixed reception during the World Cup due to its unusual flight pattern. The NASA Ames Research Center studied its performance and compared it to the +Teamgeist Berlin (used in the 2006 World Cup) and found it had a noticeable "knuckleball" effect. bbd0bc7975 However, as technological research continues in order to develop footballs with improved performance, many different designs of balls exist, varying both in appearance and physical characteristics. The 32-panel ball design was joined by balls with different number of panels, as few as 4. bbd0bc7975

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