

Bone Growthk

 For starters, strong healthy bonestage essential for effective sports performance.
But, what is the process of bone growth? that for the bones.

- Bone develops in length from INFANCY to adulthood.
- The minerals calcium and phosphate accumulate on the cartilage causing the cells to die. Blood vessels then grow in the place and transport osteoblasts and nutrients to the developing bones.

REMEMBER: Bone is continuously being broken down and restructured due to the dynamic relationship between bone cells.

- Key words:
- Osteoblasts responsible for creating bones by secreting collagen.
- The activity of Osteoblasts increase when you exercise so bones become stronger.
- This essentially means that exercise can PREVENT osteoporosis.

- Key words:
- Osteoclasts They remove bone, osteoclasts dissolve bone mineral, this degraded bone is then removed. They also remove unnecessary calcium.
- They are extremely important in remodelling the bone during injury and removal of excess bone cells.

- Injury...
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Types of Synovial Joint Press from Notesale.co.uk Press from Notesale.co.uk Page 17 of 25 Ligament Ligament

Articulating bone

containing synovial fluid

Articular or hyaline cartilage

Synovial membrane

Synovial cavity,

Fibrous capsule

Research task.

Attempt to label worksheet 1.5, which is a synovial joint.

If you struggle, research to help you.

Adaptations

These are the long term ways that the skeletal system charges due to regular training. They are long lasting, provided an athlete doesn't stop training.

- These in the from bone densition of the series of the seri increased mineral content and bone cell activity which makes the bones less susceptible to fractures and breaks.
- Increased ligament strength which reduces risk of dislocation at a joint.
- Increased thickness of articular cartilage which protects the ends of the bones from wear and tear.
- These adaptations basically reduce risk of injury making it possible to continue to train harder! Obviously if there is rest to allow skeletal system to recuperate.

