**Before you watch the film match the words.**

nacre cartilage

ophthalmologist iliac crest

shards to harvest

inflammatory response to culture

intraocular periosteum

cataract proliferation

stem cells bone marrow

**Watch the film and answer the questions.**

1. What did the Mayans use as an artificial tooth replacement?
2. Who was Sir Harold Ridley?
3. Why did people choose materials that were bioinert?
4. What types of tissues are scientists looking at regenerating all over the world?
5. What is the name of one of the procedures to repair your fracture?
6. What limitations does this procedure have?
7. What is the name of the new approach in bone regeneration?
8. What do you call the layer of stem cells on the outside of our long bones?
9. What does the artificial in vivo bioreactor cavity lead to?
10. What happens after the surgeon can harvest away the new –grown bone?
11. Why did Stevens call the contact with a team of American footballers ‘the very interesting one’?
12. What other medical problem does she mention in relation to stem cell regeneration?

**Decide if the statements are true(T) or false (F).**

1.Molly Stevens is the head of bioinert lab.

2.The Mayans were the first to use the Bluetooth technology.

3.Sir Harold Ridley proposed the material coming from the canopy of the Spitfires to use as a new material for intraocular lenses.

4.The new material discovered by Sir Harold Ridley is called PMMA.

5.Cartilage is easy to regenerate.

6.Stevens and her team were able to generate enormous amounts of bone using a new approach.

7.The new tissue formed in this approach can be used elsewhere in the body.

8.Bone has lots of blood vessels and the cells are surrounded by a 3-D matrix of nano-scale fibers.