**Virtual Surgeries Web Assignment (Due Thursday during of class) (5th period need to email assignment NO LATER THAN 2:30pm on Thursday)**

**Students Attending Field ONLY HAVE TO COMPLETE PARTS 3 &4. DUE THURSDAY DURING END OF CLASS PERIOD.**

**Directions:** The following questions will be asked during the specific surgeries. Please write down your answers as well as selecting them on the computer.

Go to [www.edheads.org](http://www.edheads.org). From the green select activity box, select each of the following surgeries.

**Part 1 Virtual Hip Replacement**

1. Based on the xray, which hip needs surgery?
2. Which template do you recommend using?
3. Which metal cup do you recommend?
4. Why is it critically important to protect the sciatic nerve throughout this procedure? (Circle one)
   1. c.
   2. d.
5. Why should we ream more towards the top? (circle one)
   1. c.
   2. d.
6. Why does the plastic liner offer more coverage at the top, back part of the cup? (circle one)
   1. c.
   2. d.
7. Why does the patient have these osteophytes? (circle one)
   1. c.
   2. d.
8. Watch Hip Replacement Video under “Additional Resources” at home. Summarize how the patient’s life was affected by the condition, and how it was improved after surgery.

**Part 2 Virtual Hip Resurfacing**

1. Why do you think it is important to preserve bone in younger patients? (circle one)
   1. c.
   2. d.
2. Which template best fits the hip?
3. With the acetabulum at 60mm, the femoral head should be 6 mm smaller. Which femoral head should we use? (Circle one)
   1. c.
   2. d.
4. Why measure the neck again? (circle one)
   1. c.
   2. d.
5. Why are so many steps taken to ensure that the center of the femoral neck is located? (Circle one)
   1. c.
   2. d.
6. Why will a larger head diameter give our patient an advantage? (circle one)
   1. c.
   2. d.
7. Why do we need to make a small trough? (circle one)
   1. c.
   2. d.
8. Watch Hip Surgery Video under “Additional Resources” at home. Summarize how the patient’s life was affected by the condition, and how it was improved after surgery.

**Part 3 Virtual Knee Replacement**

1. Can our patient undergo surgery today?
2. Which knee needs surgery?
3. What 3 functions should these drugs perform? Write 3 answers.
4. Why do you think knee surgery involves so many drapes?
5. What purpose do you think the perpendicular lines serve?
6. Why do you think the two tibial components are inserted separately instead of as one unit?
7. Why do you think there is so many steps taken to ensure proper knee alignment?
8. What is the major difference between these two methods of closing incisions?
9. What kinds of forces do you think the new knee will need to withstand?
10. Watch Hip Surgery Video under “Additional Resources” at home. Summarize how the patient’s life was affected by the condition, and how it was improved after surgery.

**Part 4 When finished with www.edheads.org:**

Go to <http://www.sportsknee.com>

* Click Patient Education from top
* Select a joint (hip, knee, shoulder) from the pull down menu.
* Select a procedure \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Watch the procedure

After watching the procedure:

1. What surgery did you watch?
2. Briefly explain what you learned from the video.
3. What sports and mechanisms of injury would cause injuries that require the surgery?