NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD \_\_\_\_\_ DATE\_\_\_\_\_\_\_\_\_

watch the youtube video and then answer the following questions.

**Basics to 3D modeling Part 2**

<https://www.youtube.com/watch?v=kjNTET6p62c>

1. What is 3D modeling
2. What are the four applications that 3D modeling is used for ?

\

1. Name and describe the 3 types of 3D modeling.
   * 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
     2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
     3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Define the following Function keys,
   1. F7
   2. F6
   3. F4
   4. F8
   5. F3
3. Explain the 3 point ucs and explain how the dynamic ucs is the better option.
4. What is the benefit of changing the drawing’s ucs to the object’s surface?
5. 3D o’snap allows you to?
6. What is one way to remove a solid from another?
7. In which menu pallet can you find the Boolean Operations?
8. Explain the following Boolean Operations.
   1. Union
   2. Subtraction
   3. Intersection
   4. Interefere
9. How can you fillet an edge of a solid?
10. Which command converts two or more solids into one?
11. Control-1 opens the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ menu.
12. Taper extrusion creates what type of shape?
13. How many subobjects does a solid have? name the sub objects.
14. Can one extrude in the negative direction of the axis?
15. What some of the Solid editing commands?
16. What is to imprint a solid?
17. explain the following solid modeling operations, using a center line
    1. path extrusion
    2. sweep
    3. loft
18. How does sweep extrusion and path extrusion differ?
19. How does revolve extrusion work?