

1. Hydrodynamics uses fluids in \_\_\_\_\_
2. Hydrostatics uses fluids that are \_\_\_\_\_
3. The force multiplier works by using two different cylinder sizes. If the smaller piston moves 10 units, the larger piston will only move 1 unit, but with \_\_\_\_\_ times the \_\_\_\_\_
4. Some applications of *raw hydraulic force* include:
  - 
  - 
  -
5. The hydraulic multiplier doesn't come for free. For every unit of force multiplication, that much more fluid has to be \_\_\_\_\_
6. Archimedes discovered the first principle of hydrostatics: \_\_\_\_\_
7. Hydraulic mining was a method used by \_\_\_\_\_ miners.
8. Swiss mathematician Bernoulli discovered that if contained liquid was passed through a smaller opening, then the \_\_\_\_\_ and therefore the \_\_\_\_\_ greatly \_\_\_\_\_
9. Once oil was discovered, a useful fluid could be used to drive the hydraulic \_\_\_\_\_
10. The first brake systems on cars used steel \_\_\_\_\_ until cars became too \_\_\_\_\_
11. Power steering didn't appear in cars until after \_\_\_\_\_
12. What other conveniences are there in cars involving hydraulics?
  - 
  -
13. The \_\_\_\_\_ \_\_\_\_\_ holds the tunnel-boring drill in place.
14. The dump truck's \_\_\_\_\_ and \_\_\_\_\_ increased using hydraulic cylinders.
15. Other construction machines using hydraulics include:
  -

- 

16. Aircraft development used hydraulics in

- 
- 
- 

17. The newest seal of choice in a hydraulic system was the \_\_\_\_\_

18. Flight controls on modern aircraft rely on fly-by- \_\_\_\_\_

19. Most recently the EHA is used for flight control. EHA stands for \_\_\_\_\_

\_\_\_\_\_

20. The entertainment industry uses hydraulics for:

- 
- 
- 

21. The future of hydraulics might be surpassed by \_\_\_\_\_ driven motors.

22. Hydraulics offer:

- 
- 

23. List 3 other applications of hydraulics that did not appear in the video.

- 
- 
-