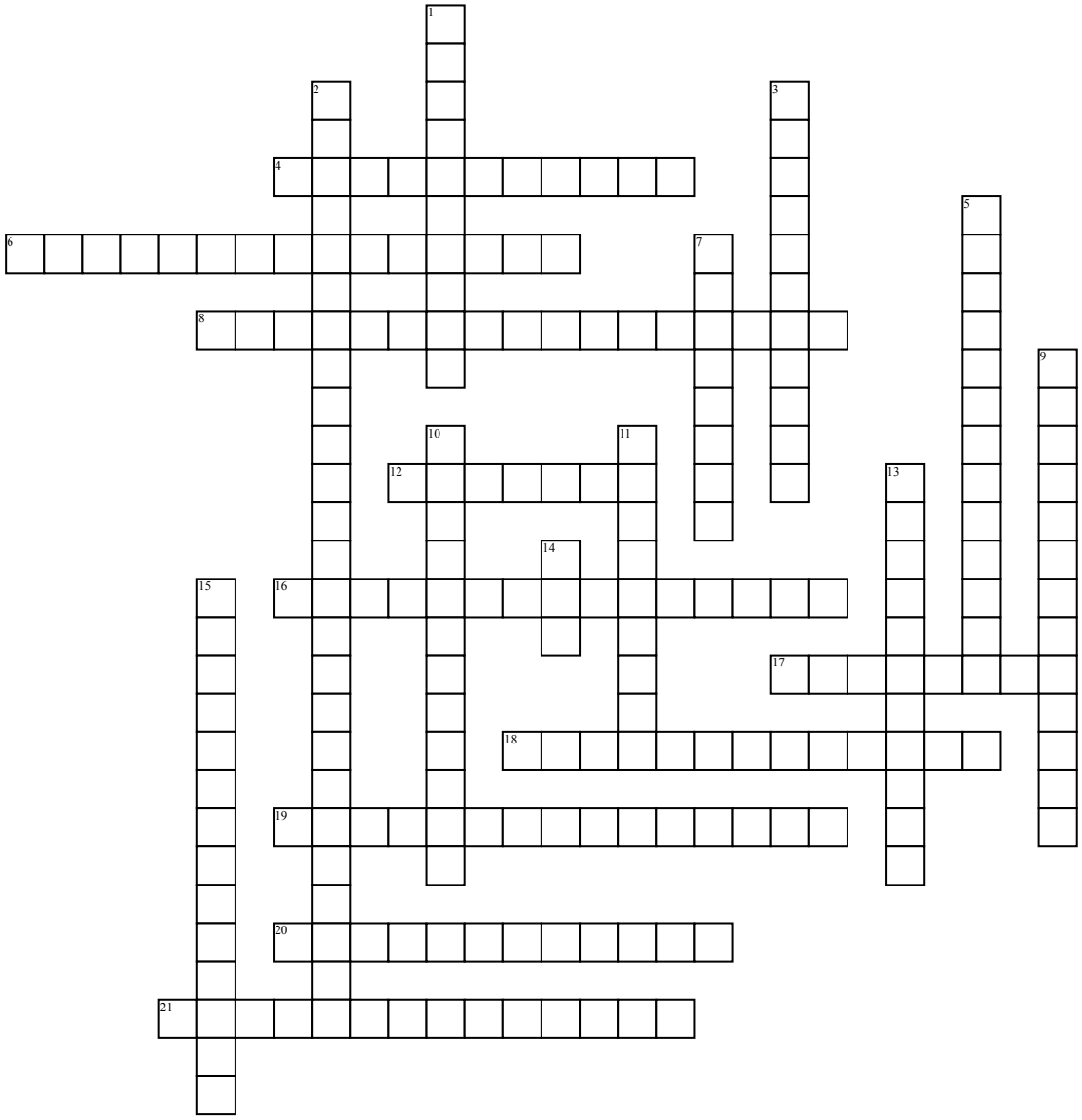
Name: _____ Date: _____ Period: _____

Brakes Crossword



Across

4. A disc brake rotor with cooling fins between its faces

6. Hardware in a drum brake system that holds the shoes to the backing plate.

8. A threaded adjuster mechanism in a drum brake that moves the brake shoes further apart so the linings will be closer to the drums.

12. Found only on disc barkes, houses piston which uses the force of hydraulic brake fluid to squeeze brake pads against the roter

16. A method of bleeding the brakes that allows fluid to dribble out of the open bleeder screws by gravity. It's a slow process and rarely used except in applications that require it because of metering valve arrangements that prevent normal manual or power bleeding procedures.

17. A brake design that provides servo action regardless of which way the drum is turning (forward or reverse).

18. The amount of sideways variation in the movement of a brake rotor or wheel. Lateral runout can be checked by positioning a dial indicator against the rotor and then turning the rotor. The amount of runout can then compared to specs to determine if the rotor needs to be resurfaced or replaced.

19. A type of disc brake caliper where the housing is designed to slide on the guide pins from side to side over the brake rotor

20. A screw valve designed with a hollow center to allow fluid to be bled through it

21. Components in a drum brake setup with two piston that extend outward as the brake fluid pressure increases

Down

1. Steel tubing that delivers brake fluid under high pressure from the master cylinder to the brake hose at each wheel

2. A safetly valve that monitors whether fluid pressure is equal in both seperate brake system circuits

3. Refers to variations in the thickness of the rotor, or the parallel alignment of the two surfaces of the rotor. Parallelism is checked with a micrometer at six or more different points around the circumference of the rotor. If the thickness varies more than the specs allow, the rotor must be resurfaced or replaced.

5. A special measuring tool with a gauge indicator that can be used to check rotor runout and wheel bearing play.

7. A rubber seal on a disc brake caliper which prevents moisture and other debree from entering the cylinder area where the piston compresses the brake fluid

9. Unit in a power brake system that multiplies the force exerted on the brake pedal to the master cylinder

10. Flat metal plate inside the brake drum on which the brake shoes, wheel cylinders, and other brake parts are mounted

11. When brake pad or shoe grip diminishes beacuse brake components have been overheated

13. The ability to absorb fluids

14. An automatic system that applies brake pressure, then releases, the applies in a rapid, pulsating fashion repeatedly.

15. A mechanial back-up system that will activate rear brakes should all hydraulic operation somehow fail