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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Engine

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 1  P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2  T | O | R | Q | U | E |  | 3  E | X | H | A | U | S | T | V | A | L | V | E |
|  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | H |  |  |  |  | 4  C |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | R |  |  |  |  | R |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 5  R | O | C | K | E | R | A | R | M |  |  |  |  |  |  |  |
|  |  |  |  |  | D |  |  |  |  | N |  |  |  |  |  | 6  I |  |  |  |
|  |  |  | 7  S |  |  |  |  |  |  | K |  | 8  R |  |  |  | N |  |  |  |
| 9  P | I | S | T | O | N |  | 10  C |  |  | C |  | E |  |  |  | T |  |  |  |
|  |  |  | R |  |  |  | A |  |  | A |  | C |  | 11  E |  | A |  | 12  E |  |
|  |  |  | O |  | 13  C | O | M | B | U | S | T | I | O | N |  | K |  | N |  |
|  |  |  | K |  |  |  | S |  |  | E |  | P |  | E |  | E |  | G |  |
|  |  |  | E |  |  |  | H |  |  |  |  | R |  | R |  | V |  | I |  |
|  |  |  |  |  |  |  | A |  |  |  |  | O |  | G |  | A |  | N |  |
|  |  |  |  |  |  |  | 14  F | U | E | L |  | C |  | Y |  | L |  | E |  |
|  |  |  |  |  |  |  | T |  |  |  |  | A |  |  |  | V |  | B |  |
|  |  |  |  |  |  |  |  |  |  |  | 15  F | L | Y | W | H | E | E | L |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | O |  |
|  |  |  |  |  | 16  C | R | A | N | K | S | H | A | F | T |  |  |  | C |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | K |  |

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| **Across**  **2.** something that tends to produce torsion or rotation  **3.** a valve through which burned gasses from a cylinder escape into the exhaust  **5.** a rocking arm lever to rotate with a moving shaft  **9.** a disk or short cylinder fiting closly within a tube  **13.** the process of burning something  **14.** matierial such as coal,oil,or gas  **15.** a heavy revolving wheel in a machine  **16.** a shaft driven by a crank | **Down**  **1.** a rod in a overhead valve engine  **4.** housing of a crank shaft  **6.** a valve that controls by fluid that goes to a intake  **7.** The act of an instant striking  **8.** given or done in return  **10.** a shaft with one or more cams attached to it exspecially one opperating the valve in a internal combustion engine  **11.** the strength and vitality required to sustained physical or mental activity  **12.** metal casting containing the cylinders and cooling ducts of the engine |