Engines of the world

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 2 |  | 3 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 4 |  | 5 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 6 |  |  |  |  |  | 7 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  | 9 |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 12 |  |  |  |  |  |  | 13 |  |  |  |  |
|  |  |  |  |  |  |  | 14 |  |  |  |  |  |  | 15 |  |  |  |  |  |
|  |  |  |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 17 |  |  |  |  |  |  |  |  |  |
|  |  |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 19 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Across**  **1.** This substance is extremely light weight and burns with intensity.  **3.** The state at which oxygen is stored in rockets.  **6.** The amount of pistons in a 2 stroke engine.  **10.** The sum of all the cylinder volumes.  **14.** What compresses the air/fuel mixture in the cylinder?  **15.** In a normal 2 stroke engine there aren't valves, but there are 2 \_\_\_.  **18.** The\_\_\_\_\_ \_\_\_\_\_allows the air/fuel mix to enter the cylinder.  **19.** The\_\_ \_\_\_\_\_controls the valve movement in a 4 stroke engine.  **20.** What is the name of the liquid fuel most commonly used in rockets. | **Down**  **2.** "Every action has an equal and opposite\_\_\_\_\_\_\_."  **4.** The\_\_\_\_\_\_stroke is when the burned air/fuel mix is blown out.  **5.** Petrol compression ratios are \_\_\_\_\_\_than Diesel.  **7.** The pistons drive this. It carries the powers to the wheels.  **8.** What property of space prevents us from using jet engines to travel in it?  **9.** Rockets work on \_\_\_\_\_\_\_'s 3rd law.  **11.** The name of an element used as an oxidizer.  **12.** Diesel compression ratios are\_\_\_\_\_\_\_\_than petrol.  **13.** The name of the second stroke in a 4 stroke engine.  **16.** A petrol engine has this, but a diesel engine doesn't.  **17.** The intake \_\_\_\_\_\_ is the part of an engine that supplies the fuel/air mixture to the cylinders. |