You are going to relate the laws of motion (Newtons 1st, 2nd and third laws) to a rocket ship taking off. How does the rocket get accelerated by the gasses escaping from the ship. Explain in detail how this event occurs using the laws of motion.

*Draw a picture of the event (20 points)*

**Fill in the boxes to determine how the laws effect the Gasses escaping and the rocketship. (20 points)**

|  |  |  |
| --- | --- | --- |
| **Newtons 1st law applies** | **Newtons 2nd law applies** | **Newtons 3rd law applies** |
|  |  |  |

Organize your thoughts using a word web (20 points)

On a lined piece of paper write your assessment of why the rocket accelerates or moves. Staple your lined piece of paper to the back of this sheet. (40 points)