



VOCATIONAL AND CAREER EDUCATION

APRIL 27<sup>TH</sup> – MAY 1<sup>ST</sup> 2020

**These are general Automotive Technology activities. Please make sure you are checking your BPS e-mail and Microsoft TEAMS for updates from your teachers. They will be sending you other activities that are specifically designed for your class.**

## Compression Testing Diagnostic Worksheet

**INSTRUCTIONS:** Using <https://www.prodemand.com/> (login: pathfinderautomotive, pass: auto210) to answer the questions below using the vehicle listed.

- YEAR: 2012
  - MAKE: Subaru
  - MODEL: Impreza
  - ENG: 2.5L
  - SUB: Base
1. The said vehicle has a P0300 code and runs rough. How can you tell which cylinder is causing the misfire?
  2. Using the Ignition Control System Diagnostic for P0300, what is the first step in the diagnostic?
  3. What is the procedure on checking the ignition spark at each cylinder?
  4. When checking the ground circuit of coil #1, what color is the ground wire and where is it located?
  5. If no problem is found, what needs to be done next in order to diagnose a cylinder misfire?
  6. Prior to performing a compression test, what needs to be done first?
  7. The compression check results in the following numbers:
    - a. Cyl#1 - 159
    - b. Cyl#2 - 162



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- c. Cyl#3 - 155
- d. Cyl#4 – 78

8. What are some of the conditions that could cause these numbers?

After answering the above questions, save this work to your Office365 OneDrive and feel free to share it with your teacher.