

## Home Vehicle Inspection

### Your Task

The purpose of this assignment is intended to provide you with an overview of a basic automotive vehicle inspection and to provide an opportunity for practical hands-on experience. **You will create an inspection report of a vehicle and include pictures and notes for recommendations based on the current condition of the vehicle.** This assignment should be completed at home on your own personal vehicle or an immediate family member's vehicle within the same household (If you do not have access to a vehicle, contact me for an alternative approach).

### Learning Outcomes

- Review basic automotive concepts
- Diagnose potential needs for automotive repair and maintenance
- Familiarize yourself with vehicle systems
- Develop a report and share findings

### Criteria

Your vehicle inspection report should include the following:

#### ***Vehicle Body***

- Year/make/model/trim
- Tire tread depth (measured in  $\frac{1}{32}$  of an inch)
- Tire size and manufacturing date
- Recommended tire psi inflation
- Rotor condition (scored, grooved, rusted)
- Brake pad life (estimated in mm)
- Brake hoses (leaks, cracks, or swollen)
- Owner's manual maintenance schedule
- Paint defects

#### ***Under the Body***

- Shocks and springs (leaks, cracks, rust)
- CV drive axles (torn, leaking boots)
- Tie rods
- Ball joints (torn, leaking boots)

- Suspension bushings
- Exhaust pipes and mufflers (rust or holes)
- Rust (fenders, rocker panels, frame)

### ***Under the Hood***

- Air filter
- Brake fluid (clear apple juice colour)
- Power steering fluid
- Coolant (make sure car is cooled)
- Coolant hoses
- Battery posts (clean and free of oxidization)
- Drive belts
- Transmission fluid (if applicable)
- Oil level and condition
- Oil type

### **Format**

Your report can be created as a Word document or Power Point presentation. Be sure to describe the condition of each component and include any recommendations for repair or maintenance. **An example report will be provided for you to follow.**

### **Evaluation**

Your inspection report must be posted to your Edublog. The evaluation of the report will be based on the following criteria for all 25 components:

- All components are checked
- Pictures included for components
- Notes and recommendations are included

TOTAL /25