

Name:

Class/Block:

Date:

ROUTINE MAINTENANCE POWERPOINT WORKSHEET

1. Vehicle maintenance should be performed regularly for what two reasons?

1 - _____

2 - _____

2. How often you should do maintenance on a vehicle will depend on three things. What are they?

1 - _____ 2 - _____

3 - _____

3. List the five steps when inspecting the engine oil level and condition (and the sixth step if/when needed).

1 - _____

2 - _____

3 - _____

4 - _____

5 - _____

6 - _____

4. Engine oil minimizes _____ contact, and without oil the engine would _____.

5. Choose which km range that oil needs to be replaced at.

a) Every 1,000 to 3,000km

b) Every 3,000 to 5,000km

c) Every 5,000 to 7,000km

d) Every 7,000 to 10,000km

e) Every 10,000 to 15,000km

6. When changing the engine oil, what is the main safety factor to be aware of?

Name:

Class/Block:

Date:

7. Put the following 10 steps of an oil change in the correct order.

| Step # | Procedure |
|--------|--|
| | Allow the oil to drain completely (10 minutes or more). |
| | Inspect the drain plug gasket and replace if needed. Reinstall with hand first, then followed with the wrench. |
| | Install the new oil filter and tighten it only by hand, not with the oil filter wrench. |
| | Warm up the engine (at least 10 minutes). |
| | Start the engine once the dipstick shows the oil level is full. |
| | Shut off the engine. |
| | Remove oil filter by unscrewing counterclockwise by hand or with an oil filter wrench. |
| | Add the correct amount and type of oil with a funnel. |
| | Oil the new gasket with clean oil. |
| | Use a socket or closed-end wrench to remove the drain plug. |

8. What is the purpose of an oil filter? _____

9. True or false: The oil filter will leak out ½ a liter of oil or more when removed. ___

10. 3 or 4 cylinder engines will use _____ liters of new oil, while 6 or 8 cylinder engines will use _____ liters of new oil.

11. What is the most common type of oil used? _____

12. After completing your oil change, what three things should you do?

1 - _____

2 - _____

3 - _____

13. You should inspect the engine coolant level and condition in the expansion bottle _____, and do not remove the _____.

14. If engine coolant is low, add a mixture of 50% _____ and 50% _____.

Name:

Class/Block:

Date:

15. Standard antifreeze is either _____, _____, or _____ in colour, whereas long life coolant is _____.

16. What is the important thing to remember with standard antifreeze and long life coolant? _____

17. For antifreeze, use an _____ to examine the antifreeze colour, clarity, and temperature protection level. For coolant use a _____ to check for excessive acidity.

18. To use a voltmeter, connect _____ to ground and place the _____ lead into the coolant.

19. Below, circle the acceptable volt measurement, and put an X through the volt measurement that needs the coolant to be replaced.

0.6 volt and higher

0.5 volt and lower

20. What does ATF stand for? _____

21. When checking the ATF, the fluid level should be at the _____ mark on the dipstick if the car is warmed up, and should be at the _____ mark if the car is cold. This is also true for _____ fluid.

22. Choose how often ATF should be replaced in a vehicle below.

Every 20,000km

Every 40,000km

Every 60,000km

23. When checking the colour of brake fluid, it should look like _____. If the colour is _____ or _____ it should be flushed out.

24. Brake fluid should be flushed out every _____ years.

25. Differential fluid is used in _____ and _____ vehicles.

26. Differentials usually require what type of gear oil? _____

27. What are the three fluids that manual transmissions can use?

1 - _____ 2 - _____

3 - _____

Name:

Class/Block:

Date:

28. Chassis lubrication is required on some older vehicles. You should check _____, _____, and _____ for grease fittings.

29. To lubricate door hinges, squirt a small amount of engine oil on the moving _____. There are _____ on each door.

30. There are two types of air filters in a vehicle. List them in the chart below, along with what they are used for.

| Filter Type | What It Does |
|-------------|--------------|
| | |
| | |

31. There can be many accessory drive belts in a vehicle. These can either be in a _____ belt or _____ belt style.

32. Name three types of evidence to show that a drive belt is wearing down.

1 - _____ 2 - _____

3 - _____

33. Do not use _____ or _____ in place of windshield washer fluid.

34. Name four things incorrect tire pressure can cause.

1 - _____ 2 - _____

3 - _____ 4 - _____

35. Where can you find the tire pressure listed in a vehicle? _____
_____.

36. Typical tire pressures are between _____ PSI and _____ PSI.