

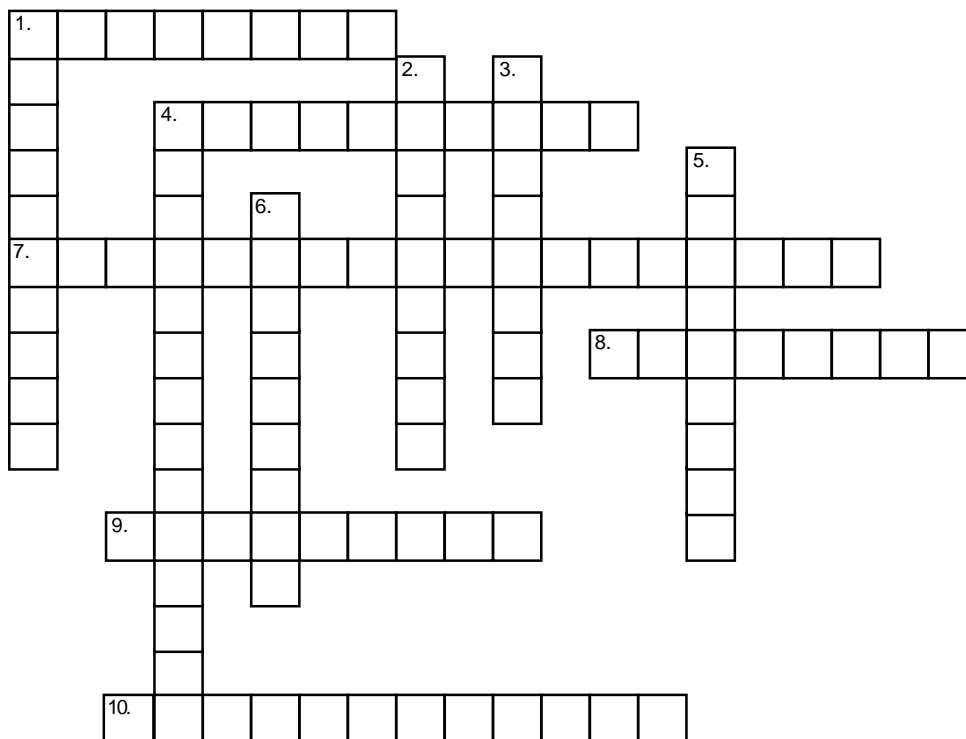
CHAPTER REVIEW

Chapter 13

Petroleum Chemistry

I. Vocabulary Review

Solve the following crossword puzzle by using the clues provided.



Across

1. occurs when long chains of carbon compounds are split to produce gasoline
4. gas and oil often found in rocks like this (two words)
7. looking for petroleum by making a picture of rocks below Earth's surface (two words)
8. detector that picks up sound waves reflected off rock layers
9. toothlike fossils that change color after heating
10. quality that allows fluids to flow through rocks

Down

1. a burning process in which energy is released
2. a trap for petroleum, usually capped with a seal
3. the amount of open space in rocks
4. a picture made by a computer of the rock layers underground (two words)
5. naturally recycled remains of microorganisms, used for fuel
6. the movement of oil from source rocks to a trap

II. Concept Review

In the blank, write the word or words that best complete the sentence.

11. Rocks with little _____ matter may be the source for huge amounts of oil.

Chapter Review 13 (continued)

- 12. The term “hydrocarbon” applies to petroleum because it is composed mainly of _____.
- 13. Organic matter must be _____ to produce hydrocarbons.
- 14. Conodonts are toothlike fossils found in _____.
- 15. The availability of traps can affect the _____ of petroleum underground.
- 16. Source rocks are composed of microorganisms covered by _____.

III. Skills/Process Review

Answer the following questions in complete sentences.

- 17. How does cracking produce gasoline from longer-chained carbon compounds? _____

- 18. Explain how the various fractions of crude oil are separated in refining towers. _____

- 19. When you have a fire in a pan on your stove, you have been advised to cover the pan with a tightly fitting lid. Explain how this will put out the fire. _____

IV. Feature Review

- 20. **Science and Society: Kill the Car?** Review the reasons for and against eliminating the car. Then state which side you prefer and why. _____

