



# Jigsaw Role Questions and Presentation Questions

## Exploration: Geologist

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1. Why is an understanding of fossil fuel formation helpful in locating oil reservoirs?
2. What geological characteristics are associated with oil reservoirs?
3. What technologies are used to locate oil reservoirs?
4. What types of careers are available in oil exploration?

## Production: ROVER Operator

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1. What technologies are used to drill for oil?
2. What physical characteristics of rock formations are important when drilling for oil?
3. How does offshore drilling differ from drilling on land?
4. What types of careers are available in oil production?

## Refining: Lab Technician

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1. What are the important characteristics of hydrocarbons?
2. What are the processes involved in refining crude oil?
3. What products come from refining crude oil and how are they used?
4. What types of careers are available in oil refining?

## Manufacturing: Process Technician

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1. What are feedstocks and how are they used?
2. What equipment and processes are involved in chemical manufacturing?
3. What are some of the important products of chemical manufacturing?
4. What types of careers are available in chemical manufacturing?

## Transportation: Pipeline Inspector

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1. What types of transportation are used in oil production?
2. What are the hazards of transporting petroleum and its products?
3. How are pipelines maintained?
4. What types of careers are available in petroleum transportation?

## Consumer

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1. What petroleum products do average Americans use every day?
2. Where does the U.S. get its crude oil?
3. What are current economic trends in the oil industry?
4. What are the environmental impacts of petroleum production and consumption?

## Presentation Questions:

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1. What are the advantages of using petroleum?
2. What are the disadvantages of using petroleum?
3. Does the use of petroleum provide more benefits or risks to society?
4. How would a sharp increase in the price of crude oil affect the standard of living in the U.S.?
5. What can consumers do to ensure that future generations will receive the benefits of petroleum products?