**OPEC Middle School Simulation**

**Callanan Middle School**

**Patterson**

The purpose of this simulation is to have students understand the complex relationship between buyers and sellers of natural resources.

**Simulation Overview**

Split students into country groups, hand them an envelope with two trifold signs (one that says buyer, seller, or banker and the other the country they represent) and their group description card. The group description outlines the countries goals for the simulation. Remind the students that there are no set amounts of winners or losers the only sure way to “lose” is to ignore the instructions they have been given as a group.

**Turn Sequence**

1. **Market Closed** -The sellers determine the price they want to sell oil at for the year.

2. **Markets Open** - Sellers fill out sale slips (page 6) and post them on the market place (page 7). Buyers look over the sale offers and use their sales chart to decide what offer they want to choose.

3. **Reflection -** Groups reflect on their strategy, receive new information if applicable. The banker and the teacher tally the transactions for the round.

|  |  |
| --- | --- |
| **Oil Buyers** | **Description** |
| U.S.A. | These three groups represent the growing demand for oil in the world. Minimum of two buyers. |
| Western Europe |
| China |
| Rest of World |

|  |  |
| --- | --- |
| **Oil Sellers** | **Description** |
| Saudi Arabia | These groups represent countries that have the majority of oil reserves in the world. All of their oil is sitting in barrels ready to trade on the world market. Max out sellers if possible. |
| Iran |
| Iraq |
| Kuwait |
| Qatar |

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| **Banker** | **Description** |
| Bank | Controls and tracks of money and resources flowing throughout the market. |

**Simulation Length**

The simulation will last ten rounds, each round will last a year starting in 2015 and ending in 2024. The teacher should mark what year it is so everyone can see.

Round 2018 - Buyers Card page 5 – Introduce OPEC

**Red Herring (Optional)**

Have sellers roll a die, if they roll a six than they can’t sell oil that turn and lose 10 points.

**Suggestions**

* Use monopoly money to start off/show points
* Have country signs made for groups to have on table.
* Give enough slips to buy during all rounds
* Anonymous buying slips, more trick cards (put in envelopes on board with numbers)
* If buyers take a slip off the wall, then they have committed to buying it for that price.
* Print buyer/seller sheets on different colored paper
* Have groups label all buying sheets

**Sample Market/Whiteboard**

|  |  |  |
| --- | --- | --- |
| Year: 2016  Market Closed  Market Open  Reflection     |  | | --- | | Sellers (Sale Slips) | |  | |

**Description Card**

**Role**: Buyer

**Country Description**

Congratulations, you are now in charge of one of the world’s largest countries. With incredible power comes great responsibility. Seeing as you are now the “Supreme Leader” for the next ten years, you must keep your country well supplied with oil. Oil is necessary for growth; the lower the oil prices, the stronger your economy will become (the more stacks you can show off on your Instagram). We will track the strength of your economy based on how much monopoly money you end the game with.

**Goal**

Your goal is to buy oil at the right price, which allows your economy to grow and for you to gain points (and build statues☺).

**Rounds**

The simulation will last ten rounds. Each round will last a year starting in 2015 and ending in 2024. The teacher will mark what year it is on the whiteboard.

**Turn Sequence**

1. **Market Closed** -The sellers determine the price they want to sell oil at for the year.

2. **Markets Open** - Sellers fill out sale slips (page 6) and post them on the market place (page 7). Buyers look over the sale offers and what offer they want to purchase.

3. **Reflection -** Groups reflect on their strategy and receive new information, if applicable.

**Market Open**

Your group will have to decide what country to buy oil from. When the market opens, you will have to look at the slips of paper on the whiteboard and decide what country has the best offer. If you decide not to buy oil during a round, **your country will** **lose ten dollars. If you run out of points, your people will become angry and replace you with a coup de ’tat.** If two buyers want to buy oil from one country, you will roll a die to determine who has access to it.

**Buyer Data**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Oil Price Per Barrel | $1 | $2 | $3 | $4 | $5 | $6 | $7 | $8 | $9 | $10 |
| Monopoly $ Profit | +8 | +6 | +3 | +1 | +0 | -1 | -1 | -2 | -4 | -10 |

**Description Card**

**Role**: Seller

**Country Description**

Congratulations, you are now in control of one of the world’s largest oil fields. With incredible power comes great responsibility. Seeing as you are now the “Supreme Leader,” for the next ten years, you must sell your country’s main natural resource. Selling oil is necessary for growth; the higher oil price, the stronger your country will become (dolla, dolla bill yall). We will track the strength of your country based on how much money you have throughout the simulation.

**Goal**

Your goal is to sell oil at the right price, which allows your economy to grow and for you to gain points (and build statues☺).

**Rounds**

The simulation will last ten rounds. Each round will last a year, starting in 2015 and ending in 2024. The teacher will mark what year it is on the whiteboard.

**Turn Sequence**

1. **Market Closed** -The sellers determine what price they want to sell oil at for the year.

2. **Markets Open** - Sellers fill out sale slips (page 6) and post them on the market place (page 7). Buyers look over the sale offers and decide what offer they want to choose.

3. **Reflection -** Groups reflect on their strategy and receive new information, if applicable.

**Market**

Your group can decide to try and sell your oil at any price. Remember the buyers get to “shop” for their oil. When you are ready to sell your oil, you need to fill out a sale slip and post it on the board when the market opens. If no one buys your oil, then **your country** **loses ten dollars for the round**. **If you run out of money, your people will become angry and replace you with a coup de ’tat. Also, when the market opens, if you roll a six, you lose ten dollars because your people are angry at you.**

**Seller Data**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Oil Price Per Barrel | $1 | $2 | $3 | $4 | $5 | $6 | $7 | $8 | $9 | $10 |
| Monopoly $ Profit | -5 | -2 | +0 | +1 | +2 | +3 | +4 | +8 | +9 | +10 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Year ->** | **2016** | **2017** | **2018** | **2019** | **2020** | **2021** | **2022** | **2023** | **2024** | **2025** |
| **Country** | **Round ->** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| U.S.A | 100 pts. |  |  |  |  |  |  |  |  |  |  |
| Rest of World | 100 pts. |  |  |  |  |  |  |  |  |  |  |
| W. Europe | 100 pts. |  |  |  |  |  |  |  |  |  |  |
| China | 100 pts. |  |  |  |  |  |  |  |  |  |  |
| Saudi Arabia | 70 pts. |  |  |  |  |  |  |  |  |  |  |
| Iran | 50 pts. |  |  |  |  |  |  |  |  |  |  |
| Iraq | 30 pts. |  |  |  |  |  |  |  |  |  |  |
| Kuwait | 40 pts. |  |  |  |  |  |  |  |  |  |  |
| Qatar | 70 pts. |  |  |  |  |  |  |  |  |  |  |

I--------Buyers--------I

I---------------Sellers--------------------I

**Seller Chart**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Oil Price Per Barrel | $1 | $2 | $3 | $4 | $5 | $6 | $7 | $8 | $9 | $10 |
| Monopoly $ Earned | +8 | +6 | +3 | +1 | +0 | -1 | -1 | -2 | -4 | -10 |

**Seller Chart**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Oil Price Per Barrel | $1 | $2 | $3 | $4 | $5 | $6 | $7 | $8 | $9 | $10 |
| Monopoly $ Earned | -5 | -2 | +0 | +1 | +2 | +3 | +4 | +8 | +9 | +10 |

**\*If a country doesn’t sell or buy oil during a round, they lose 10 points**

**Year 2018**

All countries selling oil should receive this card. If you have not done so already, take some time to talk with other countries about selling oil. Try and decide on selling a price together. This will allow all countries to sell their oil and should allow you to raise the gas prices.

**Year 2018**

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**Year 2023**

The country of Kuwait should receive this card. You are a great leader who occasionally likes to shop online. Even though you are working with other countries, you need to make sure that your oil sells first so you can pay for all of your brand new shoes. Make sure that you offer the lowest priced oil. If other countries ask what you are doing, DON’T say anything (shoe shopping is kind of an embarrassing addiction to have)!

**Year 2023**

The country of Kuwait should receive this card. You are a great leader who occasionally likes to shop online. Even though you are working with other countries, you need to make sure that your oil sells first so you can pay for all of your brand new shoes. Make sure that you offer the lowest priced oil. If other countries ask what you are doing, DON’T say anything (shoe shopping is kind of an embarrassing addiction to have)!

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The country of Kuwait should receive this card. You are a great leader who occasionally likes to shop online. Even though you are working with other countries, you need to make sure that your oil sells first so you can pay for all of your brand new shoes. Make sure that you offer the lowest priced oil. If other countries ask what you are doing, DON’T say anything (shoe shopping is kind of an embarrassing addiction to have)!

**Year 2026**

Each buying country buying oil should roll a die.

**Buyer that roles the highest**

After years of hard work and billions of dollars, a former Callanan Middle School student has come up with an alternative to oil. You no longer need to buy from those annoying countries that sell oil. Don’t tell the sellers why you aren’t buying the oil, but the next time the market opens just don’t do anything!!! From now on, you will receive eight dollars a year. If you want, you can sell/share your formula with the other buyers.

**Buyer that doesn’t role the highest**

See if you can buy the formula that is an alternative to oil from the buyer that invented it. If you get access to the formula, you will receive eight dollars a year and never need to buy oil again! Money in the bank!

**Year 2026**

Each buying country oil should roll a die.

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After years of hard work and billions of dollars, a former Callanan Middle School student has come up with an alternative to oil. You no longer need to buy from those annoying countries that sell oil. Don’t tell the sellers why you aren’t buying the oil, but the next time the market opens just don’t do anything!!! From now on, you will receive eight dollars a year. If you want, you can sell/share your formula with the other buyers.

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**Buyer that doesn’t role the highest**

See if you can buy the formula that is an alternative to oil from the buyer that invented it. If you get access to the formula, you will receive eight dollars a year and never need to buy oil again.

**Sale Slip – Year 20\_\_\_\_**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  Is selling oil for:    If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Sale Slip – Year 20\_\_\_\_**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  Is selling oil for:  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Sale Slip – Year 20\_\_\_\_**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  Is selling oil for:  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Sale Slip – Year 20\_\_\_\_**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  Is selling oil for:  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Name:**

**Block: OPEC Simulation #1 Reflection**

**Teacher:**

**Directions**: Answer the following questions in complete sentences. Make sure you answer all parts of the question being asked.

**Group Reflection**

1. What did your group do well during the simulation/game?

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2. If we played a game like this again, what should your group do differently in order to be a better team?

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3. What was your country trying to do in the game? Were you successful in achieving your goals? Who helped you?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. In 2018, oil sellers were encouraged to talk to each other to set oil prices. Why would they do this? Were they successful in getting what they wanted?

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5. In 2023, Kuwait decided that they desperately needed money so that began selling oil at a lower price than other countries, how did this affect oil prices?

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6. In 2026, a Callanan Middle School student discovered an alternative to oil. What happened to the “buyers?” What happened to the “sellers?”

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7. How might the sellers prepare for this actually happening?

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**Sale Slip – Year 2016**

**Class Copy – Bid Slips to Graph**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  **Qatar**  Is selling oil for:  **$5**    If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Sale Slip – Year 2017**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  **Qatar**  Is selling oil for:  **$4**  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Sale Slip – Year 2018**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  **Qatar**  Is selling oil for:  **$5**  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Sale Slip – Year 2019**

**1**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  **Qatar**  Is selling oil for:  **$7**  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Class Copy – Bid Slips to Graph**

**Sale Slip – Year 2020**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  **Qatar**  Is selling oil for:  **$7**    If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Sale Slip – Year 2021**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  **Qatar**  Is selling oil for:  **$9**  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Sale Slip – Year 2022**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  **Qatar**  Is selling oil for:  **$9**  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**2**

**Class Copy – Bid Slips to Graph**

**Sale Slip – Year 2023**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  **Qatar**  Is selling oil for:  **$10**  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Sale Slip – Year 2024**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  **Qatar**  Is selling oil for:  **$5**  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**Sale Slip – Year 2025**

|  |  |
| --- | --- |
| **Seller** | **Buyer** |
| Country of:  **Qatar**  Is selling oil for:  **$2**  If sold, we receive \_\_\_\_\_\_\_\_\_\_ dollars | Country of:  Is buying oil for:  If bought, we receive \_\_\_\_\_\_\_\_\_\_ dollars |

**3**