

Name: _____

Date: _____ Period: _____

Birdseed Mining:

Round 1

Today you will be “mining” for resources. You will be provided with a list of the resources that are available. Each group will choose four resources from the list that their group would like to mine. Record these on your mining products record sheet.

Below is a list of resources and their descriptions. Record the description of each resource on your table. You will not know the value of each resource at this point.

Resource Name	Resource Description
Iron	Large red pony bead
Silver	Small silver seed bead
Potash	Large white pony bead
Coal	Large black pony bead
Precious gems	Small blue seed bead
Lead	Small black seed bead
Building stone	Sunflower seeds
Gold	Small gold seed bead
Magnesium	Small red seed bead
Copper	Small green seed bead

Procedure:

1. Each group selects a tray.
2. Take one mining implement (clothespin).
3. Carefully remove the lid from the styrofoam container.
 - a. Do not poke holes your your styrofoam container.
 - b. Do not write on your styrofoam container.
4. As each resource is removed from the pan, record it in the correct box on the mining record sheet.
5. Place your “ore” on your **mining products record** page in the correct location.
6. Mining will take place for five minutes.

RULES:

- Only resources in the **correct box** at the end of the mining period may be cashed in for money.
- Only **one student may mine at a time**.
- No individual student may mine for longer than **30 seconds** at a time.
- Students must use the implement and only the implement to mine the ore; you may not touch the beads or seeds with your hands, pencils, pens or anything else.

Calculate:

Now that you have collected your resources **calculate** how much was earned for each resource.

You will be assigned a fine for messy tables to cover environmental reclamation.

PART 2

1. Discuss as a group which resources will be most profitable for you to mine.
2. Record four new choices on a new **Mining Record Sheet**.
3. Proceed with mining as you did for part 1.

FOLLOW-UP QUESTIONS

1. During the second round did you play the round differently? Why?

2. Was this game fair?

3. In a real world situation is the amount and availability of resources distributed fairly?

4. How can you apply this to real-life situations?

5. How is the distribution of resources in this game similar to and different from the real world?

MINING PRODUCTS RECORD

Group Number: _____

1. Name of resource _____
2. Description of resource (bead or seed):

Place your
mining finds
here.

Complete the following after mining is finished.

3. Value of one unit of this resource: _____
4. Total number of units mined: _____
5. Money earned:
(multiply step 3 by step 4) _____

1. Name of resource _____
2. Description of resource (bead or seed):

Place your
mining finds
here.

Complete the following after mining is finished.

3. Value of one unit of this resource: _____
4. Total number of units mined: _____
5. Money earned:
(multiply step 3 by step 4) _____

1. Name of resource _____
2. Description of resource (bead or seed):

Place your
mining finds
here.

Complete the following after mining is finished.

3. Value of one unit of this resource: _____
4. Total number of units mined: _____
5. Money earned:
(multiply step 3 by step 4) _____

1. Name of resource _____
2. Description of resource (bead or seed):

Place your
mining finds
here.

Complete the following after mining is finished.

3. Value of one unit of this resource: _____
4. Total number of units mined: _____
5. Money earned:
(multiply step 3 by step 4) _____

Total value of all resources mined: _____

Value Chart of each ore:

Resource Name	Resource Description	Value per unit (bead)
Iron	Large red pony bead	\$ 3
Silver	Small silver seed bead	\$ 15
Potash	Large white pony bead	\$ 5
Coal	Large black pony bead	\$ 2
Precious gems	Small blue seed bead	\$ 25
Lead	Small black seed bead	\$ 6
Building stone	Sunflower seeds	\$ 1
Gold	Small gold seed bead	\$ 20
Magnesium	Small red seed bead	\$ 10
Copper	Small green seed bead	\$ 10