Teacher Page: Cookie Mining Lab

Unit: Unit 7

Website: http://teachcoal.org/lesson-plan-cookie-mining

Description: Mining Processes and Wastes

Time: 1-2 Class Periods

Materials: Play Money, Three different types of commercially packaged chocolate chip cookies, Grid

paper, Pencils, Flat toothpicks, Round toothpicks, Paper clips, Cookie Mining Worksheet

Procedure:

Warm-up:

Instructional Strategies: Pair or group students for work during this lab

Assessment: Completed Worksheet

Variations: Teacher led instruction

Interdisciplinary Connection: geography civics math

Sample Data/ Answers: None



Cookie Mining Worksheet



Name:	Date	e:		
		Costs		
(Montana -	ion costs (price of cookie) – \$3; Pennsylvania – \$5; Ko ne of property	entucky – \$7)		
Pape D. Mining/excava Flat C. Reclamation (Original number of	toothpickx \$2 nd toothpickx \$2 er clipx \$3 ation costs (chip removal) toothpickx \$3 of squares covered before coutside original outline after	4 = \$6 = Total equip 1 labor = Total excav cookie was mined = r reclamation	ment costs \$ ration costs \$	
E. Mining valuation	on	Profit		
	chips mined x \$2		Gross profit \$	
	Calculatin	g Net Profit/L	oss	
	Start-up fun less less less	total mining costs (A total reclamation	n costs (D.) - s profit (E.) +	19