Education in Chemistry 14–16 years

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Phytomining: cloze

Learning objectives

- 1 Use key words associated with phytomining.
- 2 Describe how plants can be used to extract metals from low grade ores.

Introduction

In today's high-tech society, there is an increasing need for valuable metals to use in computers and mobile phones. This worksheet will enable you to identify the key words to describe the process of phytomining and understand how plants can be used to extract metal.

Use the words from the word bank to complete the following sentences:

Large scale extraction of minerals (metal compounds) from the earth to make metals using traditional mining techniques is only cost effective when there are high concentrations of the mineral in the ground. We call such a mineral, a

When there are only small an	nounts of mineral in the ground,
called a	, then a process called
, invo	olving growing plants, is
economic to use.	
Plants called	are grown in soil
containing the low grade ore	e minerals. They absorb the
minerals via their	_ and what they don't use is
stored and	in their leaves. When
the plants are big enough, th	ney arein air and
the impure metal compound is found in the	
Chemical processes such as	and
·	re used to then purify the metal
·	
a	
from the ash.	
from the ash. Word bank	re used to then purify the metal
from the ash. Word bank ash	re used to then purify the metal
from the ash. Word bank ash concentrated	used to then purify the metal burnt displacement