

GEOLOGY AND MINERAL RESOURCES: THE MONSTER OF ALL CROSSWORD PUZZLE REVIEWS

ACROSS

- 3 leftover material once ore is processed _____
- 5 mixture of grain sizes; ideal for agriculture _____
- 8 ore of iron _____
- 13 process that removes plugs of soil to allow air and water flow to roots of plants _____
- 15 process that drives plate motion _____
- 16 farming by using the shape of the land to maximize water retention and minimize runoff and erosion _____
- 18 how well water infiltrates and percolates through soil _____
- 19 disaster that causes flooding, saltwater intrusion, and drowning _____
- 23 CWP _____
- 26 well developed A and B horizons _____
- 27 minimum number of years it takes for 1 inch of topsoil to form _____
- 29 soil acidifier _____
- 31 volcanic mountains formed by ocean-to-continent crust collision _____
- 39 chemical method used to extract metals from rock _____
- 40 fertile grassland soil _____
- 41 identified resources that can be extracted with available technology _____
- 44 upfront payment to make mining companies legally and financially responsible for environmental clean-up _____
- 45 ore of aluminum _____
- 46 layers of organic material and rock removed to access minerals _____
- 47 ore of copper _____
- 50 important nutrient for plant growth _____
- 51 important nutrient for plant root establishment _____
- 52 the P in COPD _____
- 53 waste material removed from surface of mine _____
- 55 amount of empty space between soil grains _____
- 56 decomposing organic material found in abundance in O and A horizons _____

DOWN

- 1 raises pH of acidic soil _____
- 2 located in the middle of the Pacific Plate _____
- 4 acidic top soil of boreal forests _____
- 6 desertification continent _____
- 7 solid outer surface of Earth made up of crust and rigid mantle _____
- 8 site of rising magma and plates shifting away from each other _____
- 9 land restoration once mining is completed _____
- 10 partially weathered bedrock material _____
- 11 type of plate boundary in the Mid-Atlantic _____
- 12 zone of accumulation _____
- 14 negative effect of mining when sulfide minerals are exposed to air and water _____
- 17 ore removal process that produces atmospheric sulfur and leads to acid rain _____
- 20 dense ocean crust is forced under less dense continental crust _____
- 21 increase in soil salt content mainly due to irrigation practices _____
- 22 energy resource _____
- 24 grass tilled back into garden soil to add humus and improve soil water retention _____
- 25 able to be use for farmland _____
- 28 main determiner of the chemical composition of soil _____
- 30 gel crystals used in agriculture as a soil conditioner _____
- 32 organic leaf litter _____
- 33 volcanic arc formed by ocean-to-ocean crust collision _____
- 34 type of movement at San Andreas fault _____
- 35 grain size smaller than sand, but larger than clay _____
- 36 a plan created prior to any mining activity is approved _____
- 37 essential pioneer species that begin the formation of soil _____
- 38 percolating water brings dissolved minerals downward _____
- 42 trees or manmade structures that conserve soil by reducing wind erosion _____
- 43 metal mined for economic value _____
- 47 grain size that retains the most water _____
- 48 extremely leached reddish-orange soil of rainforests _____
- 49 #1 soil issue _____
- 54 calcium sulfate mineral used in sheetrock and fertilizers _____