

TEACHER'S PACK

Activity Sheets 1

Effective January 2008

Nine (9) pages including this one



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BATHURST GOLDFIELDS

GOLD Word Maze - Level (1)

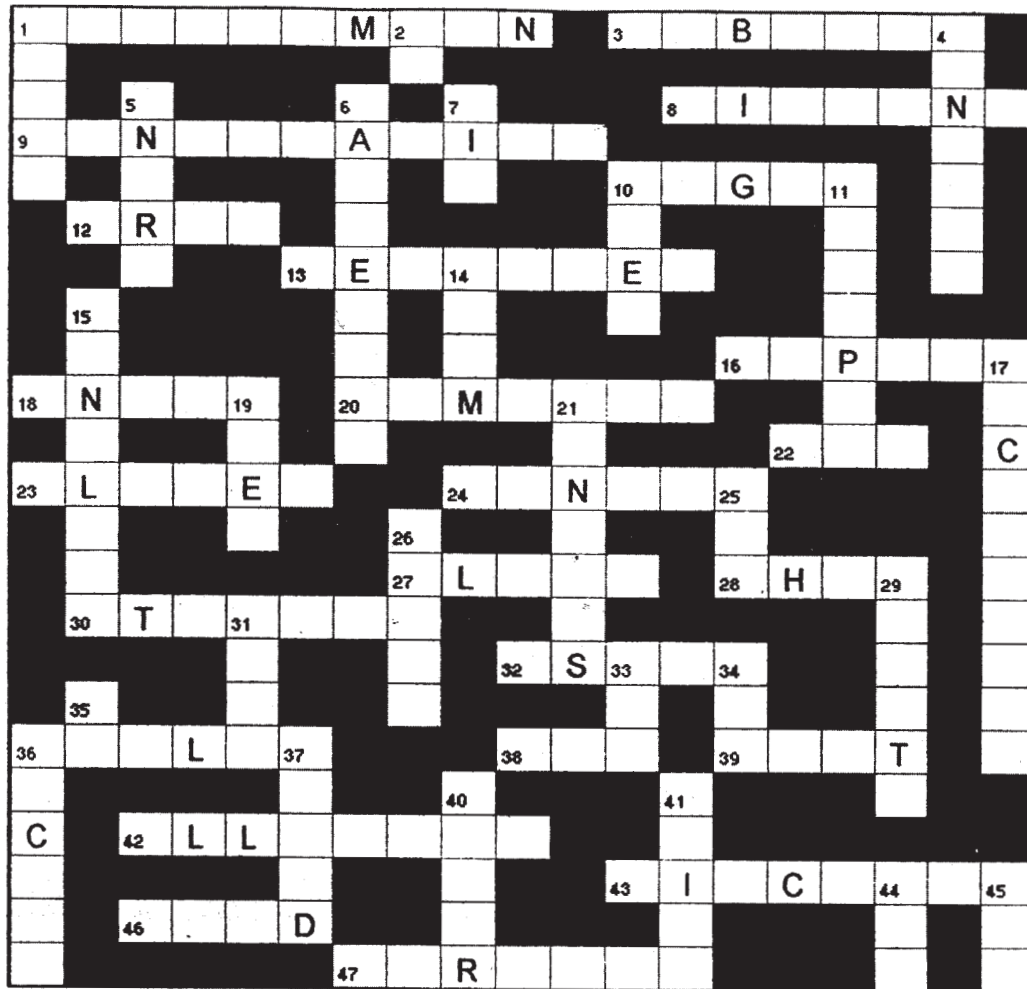
J E W E L L E R Y A L Q
N D P F O A M E G E S U
T C T E D D D T F K K A
C H S V E D W O P H I R
K I B B L E V R U J P T
O N B D U R S T D N H Z
V E I N H S A I D U H F
R S C M S B I N L G A N
M E R C U R Y G I G R C
A J V R I H O G N E G E
P W K A D I T Q G T R Q
F S L D A S S A Y B E G
O H Z L R S L M Y N A M
R A C E L Y U Z A H V S
G F K C R U C I B L E O
E T Q J X I E O F P S F
P R O S P E C T I N G T

Words to be Found in the Maze

adit	nugget
assay	ophr
Chinese	prospecting
cradle	puddling
crucible	quartz
foam	race
forge	retorting
Hargreaves	shaft
jewellery	skip
kibble	lode
ladders	soft
mercury	vein

BATHURST GOLDFIELDS

GOLD Crossword Level (1)



ACROSS

- 1 He found the largest specimen of gold in Australia.
- 3 Reverse of non-payable gold (trick question!)
- 8 A thin cover of gold used on book covers.
- 9 Is needed so that miners can breath fresh air underground.
- 10 A Licence was called a Miner's _____.
- 12 The typical build of a hardworking Chinese miner.
- 13 Something unexpected in which gold is found.
- 16 The _____ Head is built on top of a horse powered mine.
- 18 A gold bar is also called an _____.
- 20 _____ Flats was the site of the miners attack on the Chinese.
- 22 Rock from which gold may be extracted.
- 23 Another type of gold deposit.
- 24 The gold was usually stored in half _____ ball ingots.
- 27 A mixture of two or more metals.
- 28 A type of horse powered mine used in flat areas.
- 30 Used for crushing quartz in steam powered mines.
- 32 The office that you could sell gold to on the Goldfields.
- 36 Used to produce steam.
- 38 What the gold pans were made of.
- 39 One of the qualities of gold.
- 42 Gold that is found in rivers.
- 43 One of the motions used when panning.
- 46 Many miners _____ as a result of mine collapses.
- 47 The metal used on the stamper tray to attract gold.

DOWN

- 1 One of the qualities of gold.
- 2 The chemical symbol for gold.
- 4 A method of extracting alluvial gold.
- 5 Does not easily lose its original chemical make-up.
- 6 A quality of gold that makes it easy to shape and work with.
- 7 The stampers made a _____.
- 10 Quartz containing gold is found in a _____.
- 11 Was sometimes called a Joe or Trap.
- 14 Used with horses to lift the kibble up.
- 15 On top of a man powered mine to lift the kibble up.
- 17 Gold mining is very different today due to changing _____.
- 19 Cut down to make a windlass.
- 21 The type of rock in which gold is found.
- 25 Miners arriving on the Goldfields were called _____ chums.
- 26 A measurement of the purity of gold.
- 29 One form of "Fools Gold"
- 31 A place underground where gold was extracted.
- 33 A welcome sight to the miners on a cold winters day.
- 34 Would you like to find gold?
- 35 Would you like to have been caught without a licence?
- 36 Used to carry water.
- 37 The shape of a Chinese mine shaft.
- 40 A valued commodity on the Goldfields.
- 41 The stampers were very _____.
- 44 Troopers were there to enforce the _____.
- 45 To register a claim first you might _____ to the office

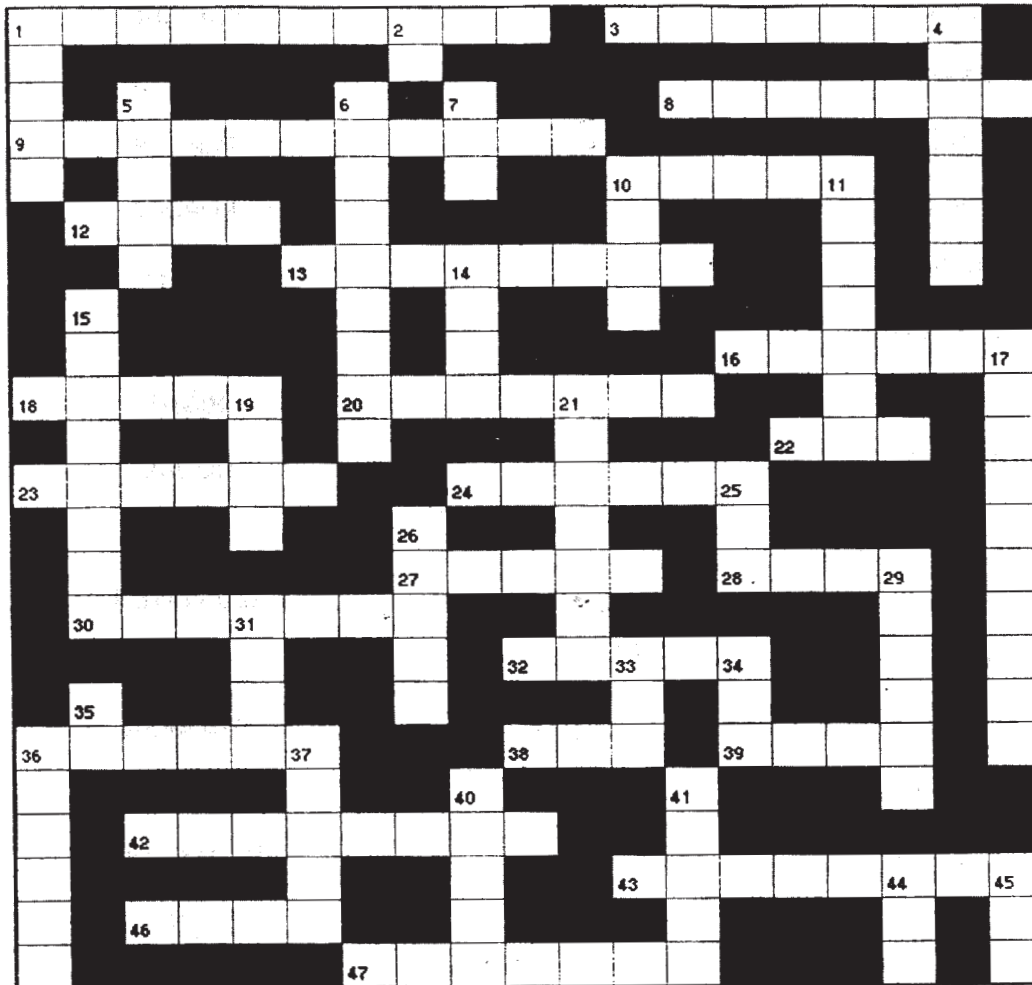
ALLOY	ORE
ALLUVIAL	PANNING
ASSAY	PAYABLE
AU	PLACER
BOILER	POPPET
BUCKET	PYRITE
CANNON	REEF
CARAT	RIGHT
CIRCULAR	ROUND
DIED	RUN
DIN	SEAWATER
GILDING	SOFT
HEAVY	STAMPER
HOLTERMANN	SUN
IGNEOUS	TECHNOLOGY
INERT	TIN
INGOT	TREE
LAMBING	TRIM
LAW	TROOPER
MALLEABLE	VENTILATION
MERCURY	WATER
MINE	WHIM
NEW	WHIP
NO	WINDLASS
NOISY	YES

BATHURST GOLDFIELDS

GOLD CROSSWORD - Levels (2) & (3)

Level (2) - With Answers (see over)

Level (3) - Without Answers



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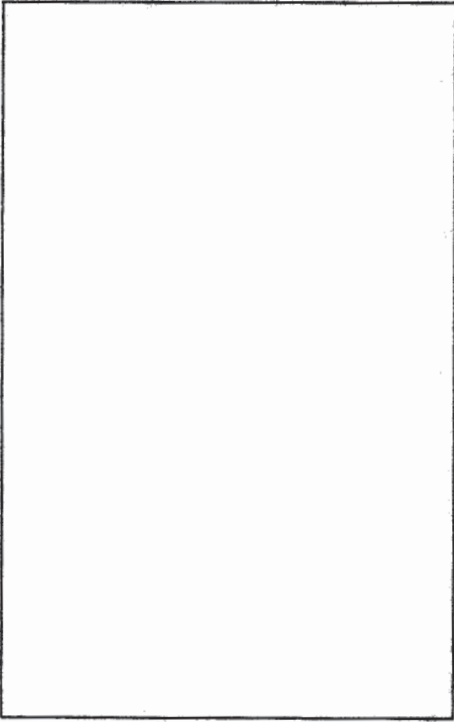
BATHURST GOLDFIELDS

Gold Terminology

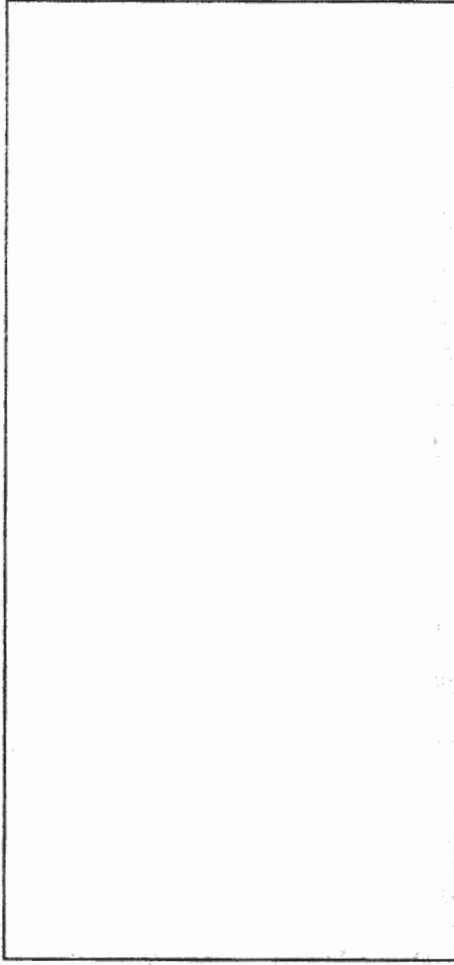
adit	a horizontal opening into a mine for ventilation, drainage or mining purposes
alloy	mixture of metals (especially inferior metal with gold or silver)
alluvial gold	gold in deposits of earth/soils left by flood or flood or flow of water (especially in rivers)
anvil	an iron block on which metals are worked (as in blacksmithing)
assay (office)	office to test quality & value of gold & to buy gold
AU	chemical symbol for gold
bedrock	solid rock under alluvial deposits
blacksmithing	working with iron to create something
boiler	apparatus for heating water and turning it into steam
Californian Hat	a shelter over a mine shaft
Californian Pump	pump used in shallow alluvial ground (operated by water, horse or man power)
carat	a measure of purity of gold
cradle	rocking device used mining alluvial gold, placed on an incline to use
dolly	an instrument used in conjunction with a dolly pot, to crush ore
dolly pot	a container into which quartz was placed to be crushed
foam gold	gold that has been prepared especially for use in filling teeth
fools gold	metals that can be mistaken for gold (eg pyrite)
forge	furnace for melting and reshaping metal
fossicker	someone who searches for surface gold (or other precious metals)
gilding	thin covering of gold or gold like substance
Gold Commissioner	issued miners' licences - was Government representative
Gold Licence	the original form of licence for the right to mine for gold - paid monthly
Gold Rush	the rush to the goldfields to find gold (Australia's started in 1851)
Holterman	the largest specimen of gold ever found was named after him
horse power	power created by the motion of a horse
igneous rock	formed when molten material cools and hardens
inert	does not easily lose its chemical make up
ingot	a mass (usually oblong) of cast metal - especially gold, silver or steel
kibble	a bucket used to get quartz to the surface
Lambing Flats Riots (Young NSW)	the worst of the attacks on the Chinese (beatings, murder, burnt tents) 1861
load	a thin seam of a mineral/metal running through rock
mad as a hatter	saying arising from the effect mercury had on a miner
malleable	pliable, easy to shape, adaptable metal
man power	power created by the efforts of a person
mercury	a silvery-white, heavy, normally liquid metallic element - used to trap gold

mine	an excavation on earth for extracting metal etc
Miner's Right	licence for the right to mine for gold (followed Gold Licence, gave more power) - annual
nugget	a lump of gold etc found in the earth
Ophir	site of the first Gold Rush
ore	a mineral/rock containing valuable substance (usually metal) worth mining
panning	the extraction of gold particles from soil or gravel by washing it in a pan
payable gold	when there is enough gold to make it worthwhile mining
placer mining	where separation of the ore from the metal takes place where deposit is found
poppet head	cross pieces of timber above mouth of shaft for pulleys, ropes etc
prospecting	searching for gold or other metals or minerals
puddling	method of extracting gold by use of a puddling machine
puddling machine	horse or man powered circular construction with shaft - to extract gold
pyrite	iron disulphide which, because of its brassy yellow colour is called fool's gold
quartz	a metamorphic rock (has undergone transformation by natural agencies)
Queen's Gold	the term used for the fact that the Queen owned all the gold before the Gold Rush
reef gold	ridge/load of ore containing gold - usually surrounded by bedrock
retorting	process used in gold mining to separate the gold from the mercury
shaft	a pit; a hole sunk in the ground
skip	a trolley in which ore was carried to the stampers
spider	a miner's candle stick holder
stamper battery	a steam (or water) powered stamping machine used to crush quartz
steam power	power generated by steam
trooper	a goldfield's policeman - keeping law and order and checking licences
vein	a reef or lode
ventilation	the circulation of fresh air
water fountain	vessel for holding water and for heating water over open fire
water race	a trough used to re-direct water
water wheel	used for water powered machinery (stamper battery)
whim	horse powered timber structure with drum and ropes, used to work buckets
whip	horse powered post (raised or lowered), rope and wheel structure to work buckets
winding engine	steam engine used to wind cages up and down mine or skip cart to and from mine
windlass	timber and rope construction over mine shaft used in manpowered mine to lift ore in kibble

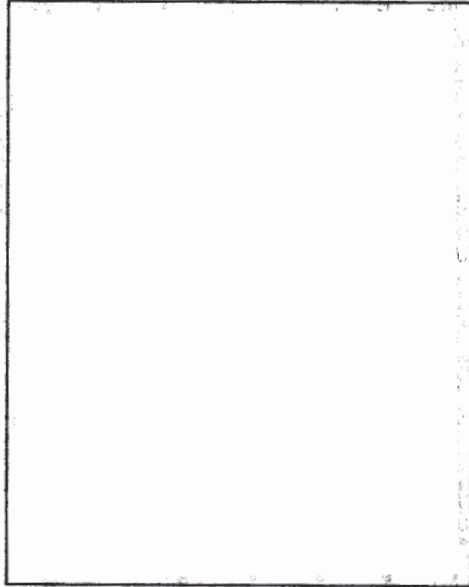
Draw a **WINDGLASS**



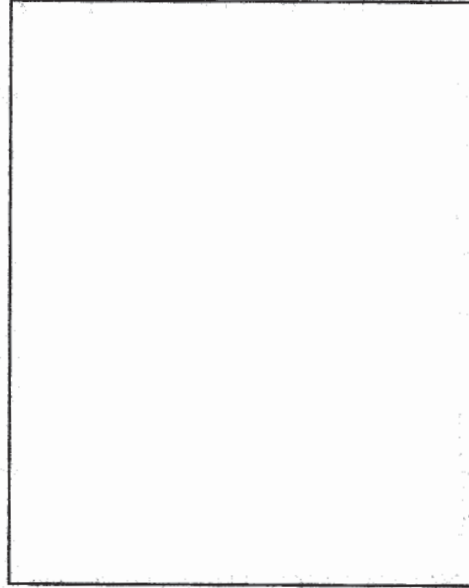
Draw a **WHIM** and **POPPET HEAD**



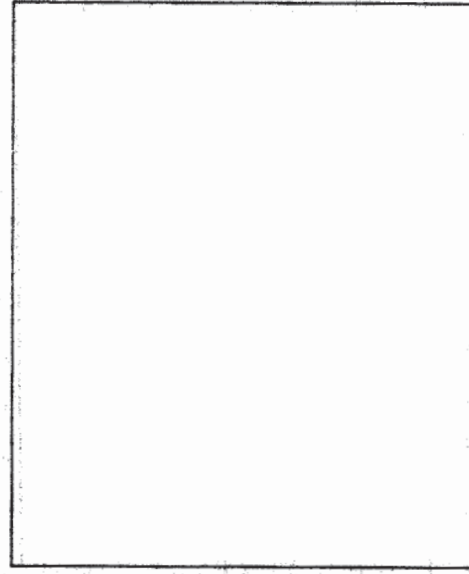
Draw the basic **CLOTHES** of a **MINER**



Draw 3 different **MINING TOOLS**



Draw the basic **CLOTHES** a **WOMAN** wore



- What was living on the Goldfields like compared with our lifestyle in Australia today?
