The Golden Crown mine is situated on New Zealand’s richest goldfield.

1. When was gold first mined at the Golden Crown mine? ___________________________

2. How long was the mine open / when did it close down? ___________________________

3. The mine averaged 12 ounces of gold per ton of quartz.

4. That’s approximately an $8,000 value per mine-truck loaded with quartz.

5. What does one ounce look like? Is it as big as your a). head b). hand c). thumb nail

6. How many mine trucks can you find on site? ___________________________

7. The richest gold find at the Golden Crown mine was found in 2 tons of quartz

8. How many million dollars worth of gold was there? ___________________________

9. Goldmines operated 24 hours per day, 6 days per week.

10. Miners worked in shifts underground.

11. How long was a shift? ___________________________

12. Miners lived to an average age of 35 years old. What dangers did miners encounter underground?

13. Name the 3 most common and potentially lethal dangers of the time.________________________________________________ 

14. Digging rock is extremely hard work. What tools did the early miners use, and how far did they progress through the rock in 8 hours? ___________________________________________________________

15. Candles supplied light in the mine and warned miners of low oxygen levels.

16. What would happen to the flame of the candle if not enough oxygen was present? ___________________________

17. Thames looked like Rotorua 2 million years ago.

18. Geo-thermal activity brought gold and other minerals to the earth’s surface.

19. How deep did the miners have to dig to find gold / what was the depth of the Golden Crown Shaft?______________

20. What rock is gold found in? ___________________________

21. What is the name of the surrounding volcanic rock? ___________________________

22. Name the parts of a GOLD MINE

23. THE GOLDEN CROWN

24. NAME THE PARTS OF A STAMPER BATTERY

25. CRUSHING

26. GRAVITATIONAL SEPARATION

27. CHEMICAL PROCESS

28. THE GOLDEN CROWN NAME OF STUDENT / GROUP:__________________________

29. ©02
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NAME OF STUDENT / GROUP:__________________________

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______________________________________________________, + _____________________________________________________

14. Name the parts of a GOLD MINE REEF OUTCROP WINDING ROOM ADIT LEVEL 1 LEVEL 7 FOOTWALL OF REEF LEADER OF QUARTZ ALONG REEF HANGING WALL OF REEF TIP HEAD OF REEF HEAD FRAME

14A. TUNNEL MADE TO ACCESS OR DISCOVER ORE BODY

14B. A LARGE SLAB OF QUARTZ SANDWICHED BETWEEN THE VOLCANIC ROCK

14C. TUNNEL THAT FOLLOWS DIRECTION OF REEF

14D. INTERNAL SHAFT

14E. MINE ENTRANCE

14F. VERTICAL TUNNEL

14G. LIFT USED TO CARRY MINE TRUCKS & PASSENGERS

14H. TRANSPORTS ORE FROM MINE TO STAMPER BATTERY

9A. MORTAR BOX

9B. BUCKET ELEVATOR

9C. FINE ORE BIN

9D. CHAMOIS LEATHER

9E. PURE MERCURY

9F. MERCURY GAS

9G. H2O OUT

9H. H2O IN

9I. CONDENSER

9J. RETORT CRUCIBLE INGOT MOULD

9K. WILFLEY TABLE RIFFLE LINOLEUM COVERED TABLE LIGHT PARTICLES [QUARTZ ROCK] WASHED AWAY

9L. HEAVY PARTICLES [MINERALS - GOLD & SILVER] TRAPPED ON TABLE

9M. FINE PARTICLES DISCARDED

9N. CHEMICAL PROCESS

9O. GRAVITATIONAL SEPARATION

9P. CRUSHING GRAVITATIONAL SEPARATION

9Q. CRUSHING

9R. BREAKS UP ORE

9S. CRUSHED ORE

9T. LIGHT PARTICLES OF QUARTZ SAND - DISCARDED

9U. HEAVY PARTICLES CONSISTING OF MINERALS SUCH AS IRON, GOLD + SILVER

9V. COMBINED METALS, MERCURY, GOLD + SILVER

9W. GOLD + SILVER

14A. THE GOLDEN CROWN OF A GOLD MINE OF A GOLD MINE OF A GOLD MINE