

Name: _____

Period: _____

Video Worksheet: DIAMONDS

1. The DeBeers Millennium Star was found in the Democratic Republic of _____, formerly known as Zaire.
2. The DeBeers Millennium Star was discovered by a miner and weighed 777 carats in the rough. The stone has since been cut, and it now weighs _____ carats, making it the largest flawless diamond in the world.
3. Carbon occurs in its natural state as graphite (a.k.a. "pencil lead") or as a lump of _____.
4. Quality and value of a diamond are determined by "The 4 C's":
 - a. The number of **CARATS** that the stone weighs
 - b. C_____, which is how clear the stone is
 - c. C_____, which can be pink, blue, colorless, etc.
 - d. C_____, which is the shape
5. The secret of a diamond lies in the _____ bond.
6. Diamonds are not forged in the Earth's crust. High pressures and temperatures found deep in the ground are necessary to make a diamond. Diamonds are formed hundreds of _____ from within the Earth's interior.
7. Diamonds never decay. Their chemistry is so _____ that nothing inside the diamond changes.
8. Diamonds are the world's _____est substance.
9. As best we can tell, the inclusions in diamonds can be dated at 2 to 3 _____ years old.
10. The basic techniques of diamond cutting haven't changed since the _____th century.

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11. Back in the 1970s, Warren Atkinson of the Rio Tinto Mining Consortium began exploring a region of Australia called the Kimberly. He originally thought he could discover the source of the diamonds by investigating _____ mounds.
12. Diamonds reach the surface of the Earth by being spewed out of v_____s.
13. To keep other people from discovering the source of diamonds in the Kimberly, the Rio Tinto Mining Consortium rented every _____ and four-wheel drive vehicle that was available.
14. For almost twenty years, the Argyle mine has produced
(one tenth / one fifth / one third) of the world's diamonds each year.
15. Argyle diamonds are famous for being this color: _____.
16. Alan Freedman, a jewelry designer and dealer, spent two days examining and bidding on the stones. How many diamonds did Alan Freedman win in his bid? (answer comes later in video) _____
17. 80% of the people who work at Argyle will never actually see a _____. If you don't need to get your hands on them, you won't get your hands on them.
18. Perth is the diamond capital of _____.
19. Diamond is a brilliant conductor of heat, but not of _____.
20. When you be flashing your bling around town,
 - a. It's best not to wear too much gold unless you're rolling 20 deep.
 - b. Make sure Chad Johnson isn't around, 'cause his grill gonna make you look stupid
 - c. When someone asks you where you got your ice, you should *not* say "Why, from a volcano of course, 2-3 billion years ago."
 - d. All of the above.