

What IS Platinum?
Platinum is a chemical element with the
Symbol PT. It is considered a nobell metal
Wick means it was a high resistance to
high tempertures and oxidation. It is a
Silver white metal once known as white
gold.

It is heavy soft, makeable and ductile, this means it is easy to work with and to draw into wires. It has a high melting point.

Where does it come from?
Platinum comes from deel underground.
It is found uncombined in Alluvial deposits.
Platinum mainly comes from Ruissa and South Africa.

80% is mined from South Africa and 20% is mined in Russia. It is also found in Small amounts.

How is it Mined?

Platinum Ore occures deep underground. To extract the mineral rich materials miners Pack explosives into holes drilled into the rock. It is blasted into Smaller Pieces and transported to the Surface for Processing. Extracting Platinum from ORE is expensive and labor internsive.



It can take up to b months and 7-12 tons of ORE to produce I troy ounce, C31.135 grams) of Pure Platinum.

Platinum did you know?

- Platinum is non loxic and stable so it does not react will negative effects in the human body
- Used in 50% of cancer therapy drugs.
- @ dental work
- Redical and labatory instrumentes for examplepacemakers for the heart

What are the uses?

Jawelery - Because it is very strong and resistant to Scrocking.





electrical Contacs - Because it is very resist to oxidation which makes it an excellent electrode.

fine resistant wires - used to control the amount of current in a circuit.







Circuit board

Cthis reduces loxic gasses)

Computer hard



Used in Comp hard dises

here is a Picture

of Platinum in its



CBA 1 Evaluation

Research & Analysis (The origin of the Material):
Do you think you found out all the relevant information about where the material came from? Yes as I did my reaserch and
found all the relevant information on my
material
How did you get on researching the material's origin? My dad knew Some and I got Some off google.
Highlight a few areas where you can improve your investigation? Could probaby add more information on the cost of the material.
Properties & Applications of the Material:
Were you successful at finding out about the properties?
because I did my reserch and use the relevant
Explain how you found out about the properties? I rescribed
Highlight where you can improve on these sections of the task? Cost of my material and add more properties
Were you happy with the way the properties section turned out? Alf yes as I have recovered info but mybe I Could of added more
How would you rate your investigation of the applications? I did a lot of reserch So probaby a 8/10

Engineering - Classroom-Based Assessment 1



	pplications of the Material:
How did you get	t on researching the material's uses? <u>asked</u> my
dad an	d used google.
	J
Highlight whom	e you can improve on these sections of the task?
,	
explain	the uses a small bit more
Chosen Product	
Do you think th	he product you chose was appropriate? QS QS /E
	ry relavent to my material
	1
	e detailed information on why the product needs the mate
	I took a lot of time to reserch
2°0 1'1	and conditional statemation
Se Sel 111	nd good, reliavent information
	The good removem morning
22/12/20/20/20/20/20/20/20/20/20/20/20/20/20	V
What new skills	s did you learn in this task?
What new skills	V
What new skill:	s did you learn in this task? to add not explain your answers a much better
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Teacher Annotations

Very effect approach taken to researching the topic of platinum which allowed for an in-depth analysis of the findings.

There was a very good understanding of where the material is used in everyday engineering scenarios.

The Classroom-Based Assessment is evaluated to a high level and shows an appreciation of where the material comes from.

The information is presented to a very high standard and there was careful consideration taken to what was needed to be presented

Overall Judgement

Above expectations







