

Rare-Earth Elements

- ✓ What are they?
- ✓ What are they used for?
- ✓ Where are they produced?
- ✓ What is dangerous about their processing?

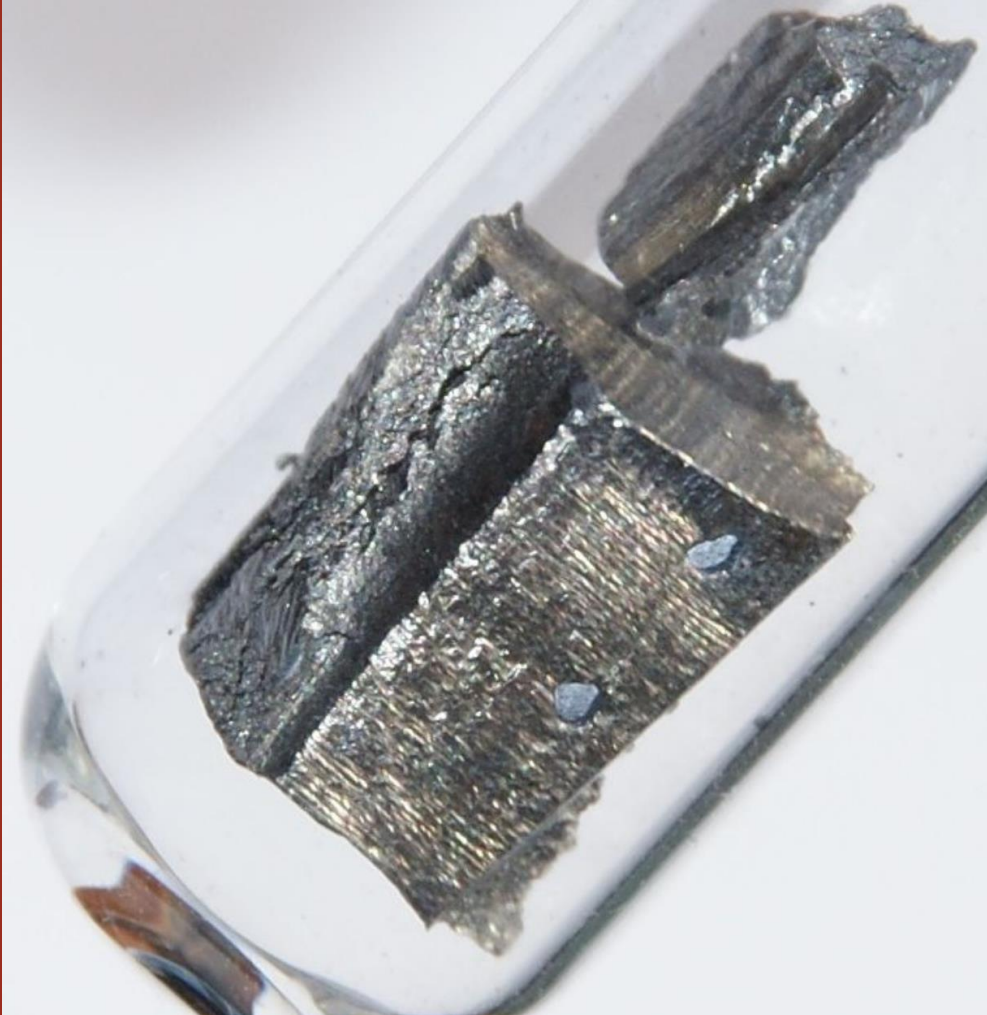
<https://www.youtube.com/watch?v=yybtv3t-jd0&pp=ygUcd2hhdCBhcmUgcmFyZSBIYXJ0aCBibGVtZW50cw%3D%3D>

What are Rare-Earth Elements?

- REE = Rare Earth Elements
- metals made up by 17 chemical elements combined with minerals
- not that rare – exist all over the world, found in rocks and soil
- have to be *extracted*
- „Seltene Erden“ – weder selten, noch Erden



NEODYMIUM



<https://snl.no/neodym>



<https://commons.wikimedia.org/wiki/File:Bastn%C3%A4site-%28Y%29-Tengerite-%28Y%29-616688.jpg>

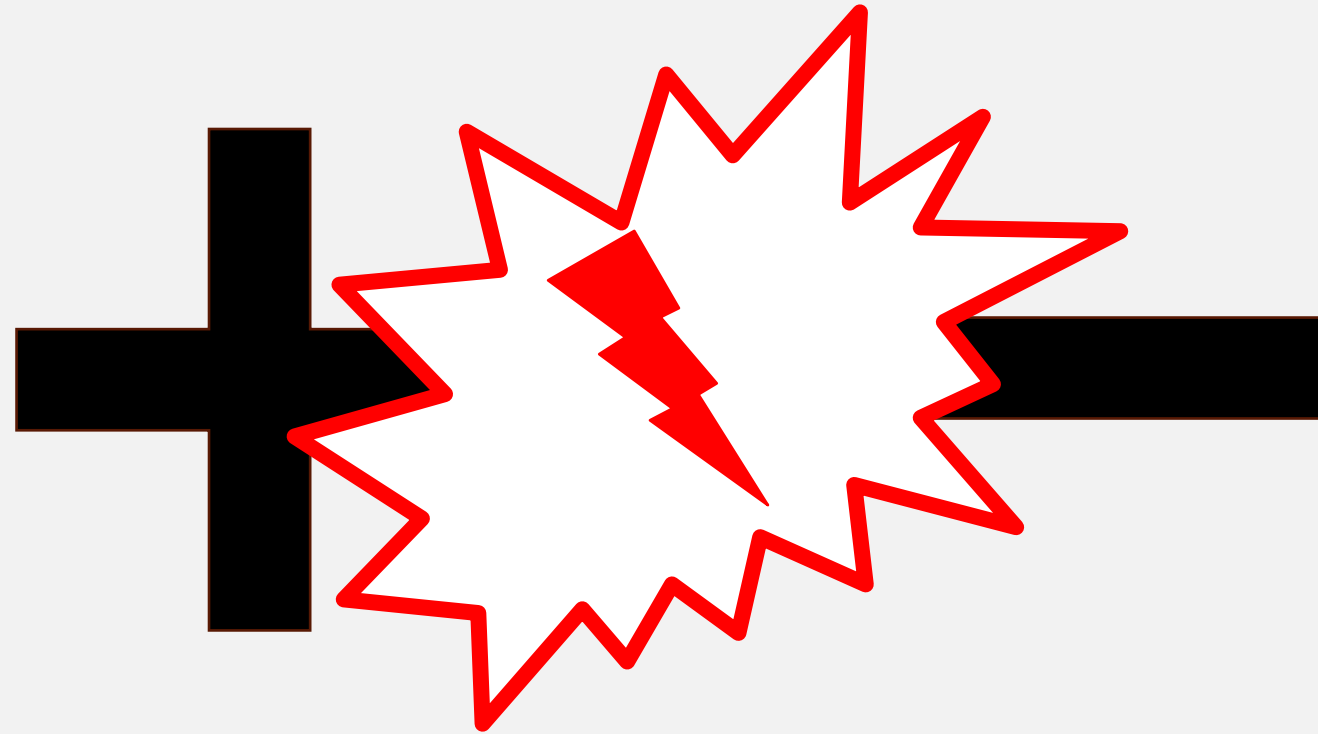
Bastnäsit

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EUROPIUM



Plan for today: pro-contra discussion



How to have a pro- contra discussion

Goal?

not your opinions!!!

opinion
argument
example/explanation

Useful words or phrases:

- I agree/disagree because...
- Firstly, secondly, furthermore, finally...
- More important is that...
- The fact is that...
- There are many reasons for/against...
- What you said is only partly true, because...
- The problem is that...
- Let me give you an example...

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TEAM PRO



TEAM CONTRA

..
..
because...

- Find arguments for your side (pro or contra)!
- Prepare so you can convince the others of your arguments!

*Tip: the **bold** words in your material highlight possible arguments, but you can also think of more yourself.*

Until your break (~30 minutes):

individual work

After your break (max. 15 minutes):

work together

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GROUP WORK

opening statement → in English

Take another look at the *Tip* at the top of your material.

Think of arguments the other team might give and find counter-arguments.

