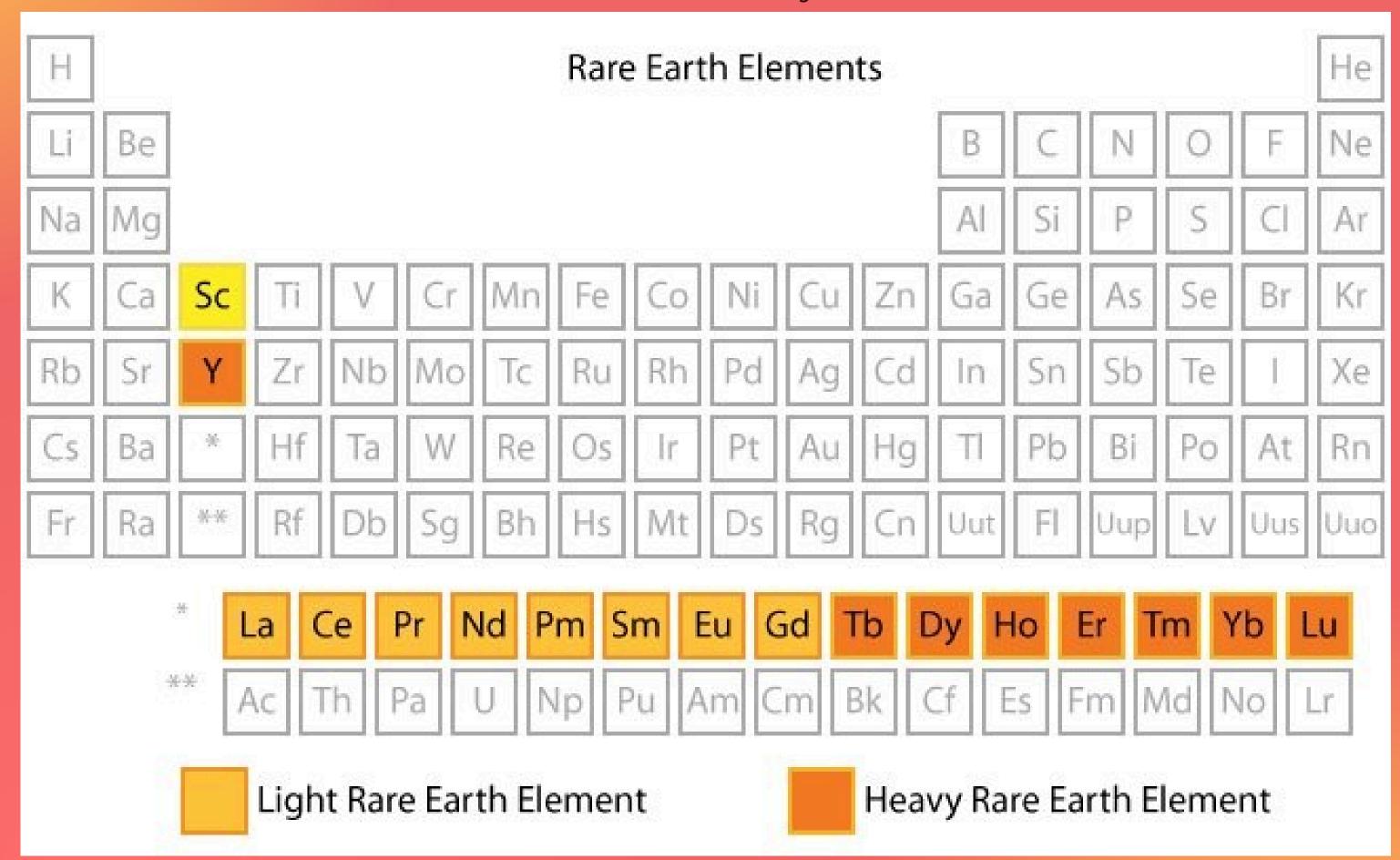
## Acid Mine Drainage (AMD) Quick Facts

- AMD forms when pyrite rich geology is exposed to air and water. Sulfuric acid forms, and heavy metals are leached (including REEs).
- There are over 12,000 stream miles impacted by AMD in the United States.
- In WV alone, 2,500 stream miles are impacted.

## Rare Earth Element (REE) Quick Facts

- 17 elements are considered REEs.
  - Includes lanthanides, scandium, and yttrium



(Image Source: Sciencenotes.org)

- REEs are used in cellphones, cars, and most of the technology today.
- Most of the world's REEs are mined in China.
  - Their practices are environmentally extractive.
  - There is no secure U.S. supply chain of REEs.
- WVWRI found that REEs exist in raw coal AMD across 140 separate sites.
  - Cobalt and nickel were found to be in a 1:1 ratio with REEs in AMD