

3

THRESHOLD  
NEW CHEMICAL  
ELEMENTS

13.6

4.65

4 BILLION YEARS AGO



It’s hard to make an element. The early universe had plenty of hydrogen and helium, but the stuff of our world needs more complex elements. The massive pressure and heat of a star will give you elements like carbon, oxygen and iron. But others like Gold, Silver and Potassium require the higher temperatures of the fiery death of star forming supernovae.

INGREDIENTS  
& GOLDILOCKS  
CONDITIONS

Aging and dying  
stars of hydrogen  
and helium

Incredibly high  
temperature  
and pressure

Nuclear fusion



NEW  
COMPLEXITY

New Chemical  
Elements

92 Elements with  
unique properties that  
can combine in millions  
of ways to form new  
compounds

QUESTIONS

What makes an  
element important in  
our lives today?