

# The Disappearing Spoon

## Worksheet Two: Part Two - Making Atoms, Breaking Atoms

### Chapter Four: Where Atoms come From: "We Are All Star Stuff"

1. How are elements with atomic numbers that are greater than iron formed?
2. What is the most abundant element in the universe?
3. What is neon rain?
4. How did Patterson determine the age of the Earth (4.55 billion years old)?

### Chapter Five: Elements in Times of War



1. Haber both won a Nobel Prize for his process to produce ammonia from nitrogen and he was charged with being a war criminal. Why was he thus charged?
2. You probably have tantalum or niobium in your pocket right now. What does this mean?

### Chapter Six: Completing the Table...with a Bang

1. What is the difference between a "dirty" bomb and a conventional nuclear bomb?
2. What is "MAD"?

### Chapter Seven: Extending the Table, Expanding the Cold War

1. Who is Glenn Seaborg?