



# ELEMENT GEOGRAPHY

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GAME DESIGNER: ATOM DUEL

PLAYERS: 2-3

TIME TO PLAY: 10 MINUTES

AGES: 7 +

## RULES

OBJECTIVE: Win as many cards as possible

This game uses all of the element cards named after place names.

1. Take out the following 30 cards:

12, 21, 29, 31, 32, 38, 39, 44, 52, 63, 65, 67, 68, 69, 70,  
71, 72, 75, 84, 87, 95, 97, 98, 105, 108, 110, 113,  
115, 116, 117

2. Deal out the cards to all players and discard any extra cards

3. Player left of the dealer goes first and plays a card. Whosever card has the highest population wins the trick.

4. For example Copper (29), Yttrium (39) and Nihonium (113) are played.

5. Nihonium wins because the population of Japan (130 million) is higher than that of Cyprus ( 875,000) and Ytterby (2,900)

6. Some cards are named after the same place. Tie goes to the card with the lower Atomic Number.

7. Use the population chart as a cheat sheet ( see below) or play by memory

# POPULATION CHEAT SHEET

ATOMIC #	NAME NAMED FOR	POPULATION
12 Magnesium	Magnesia (region of Greece)	190,000
21 Scandium	Scandinavia	21 Million
29 Copper	Cyprus	875,000
31 Gallium	France	67 Million
32 Germanium	Germany	83 Million
38 Strontium	Scotland	5.5 Million
39 Yttrium	Ytterby (Sweden)	2,900
44 Ruthenium	Russia	146 Million
52 Tellurium	The Earth	7 Billion
63 Europium	Europe	750 Million
65 Terbium	Ytterby, Sweden	2,900
67 Holmium	Stockholm, Sweden	1 Million
68 Erbium	Ytterby, Sweden	2,900
69 Thulium	Scandinavia	21 Million
70 Ytterbium	Ytterby, Sweden	2,900
71 Lutetium	Paris, France	2.1 Million
72 Hafnium	Copenhagen	600,000
75 Rhenium	Rhine River( Rhineland Pflaz State, Germany)	4.1 Million
84 Polonium	Poland	38 Million
87 Francium	France	67 Million
95 Americium	America	330 Million
97 Berkelium	Berkeley, California, USA	122,000
98 Californium	California, USA	40 Million
105 Dubnium	Dubna, Russia	70,000
108 Hassium	Hesse State, Germany	6.3 Million
110 Darmstadtium	Darmstadt, Germany	160,000
113 Nihonium	Japan	125 Million
115 Moscovium	Moscow, Russia	12 Million
116 Livermorium	Livermore, CA	90,000
117 Tennessine	Tennessee, USA	7 Million