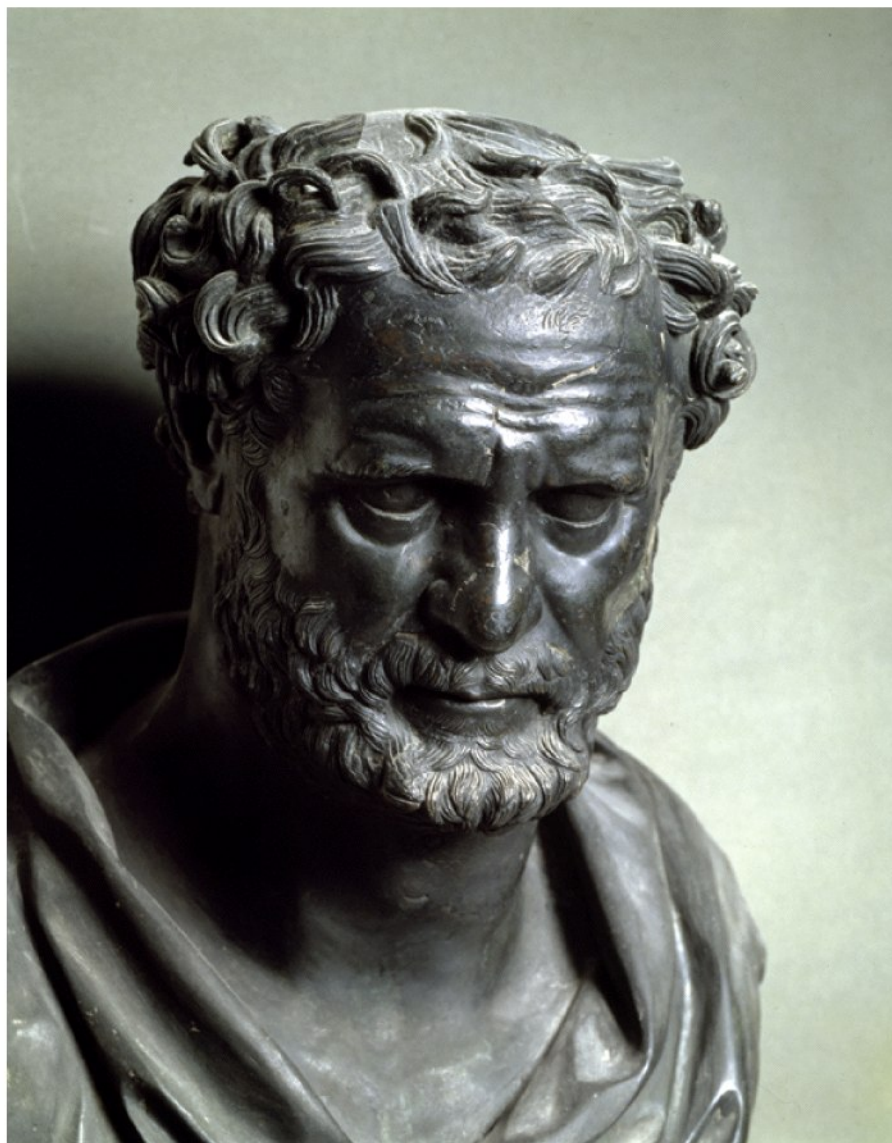


Atomic Clues

Chapter 3



Democritus (460 B.C.–370 B.C.)

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Aristotle (384 B.C.–322 B.C.)

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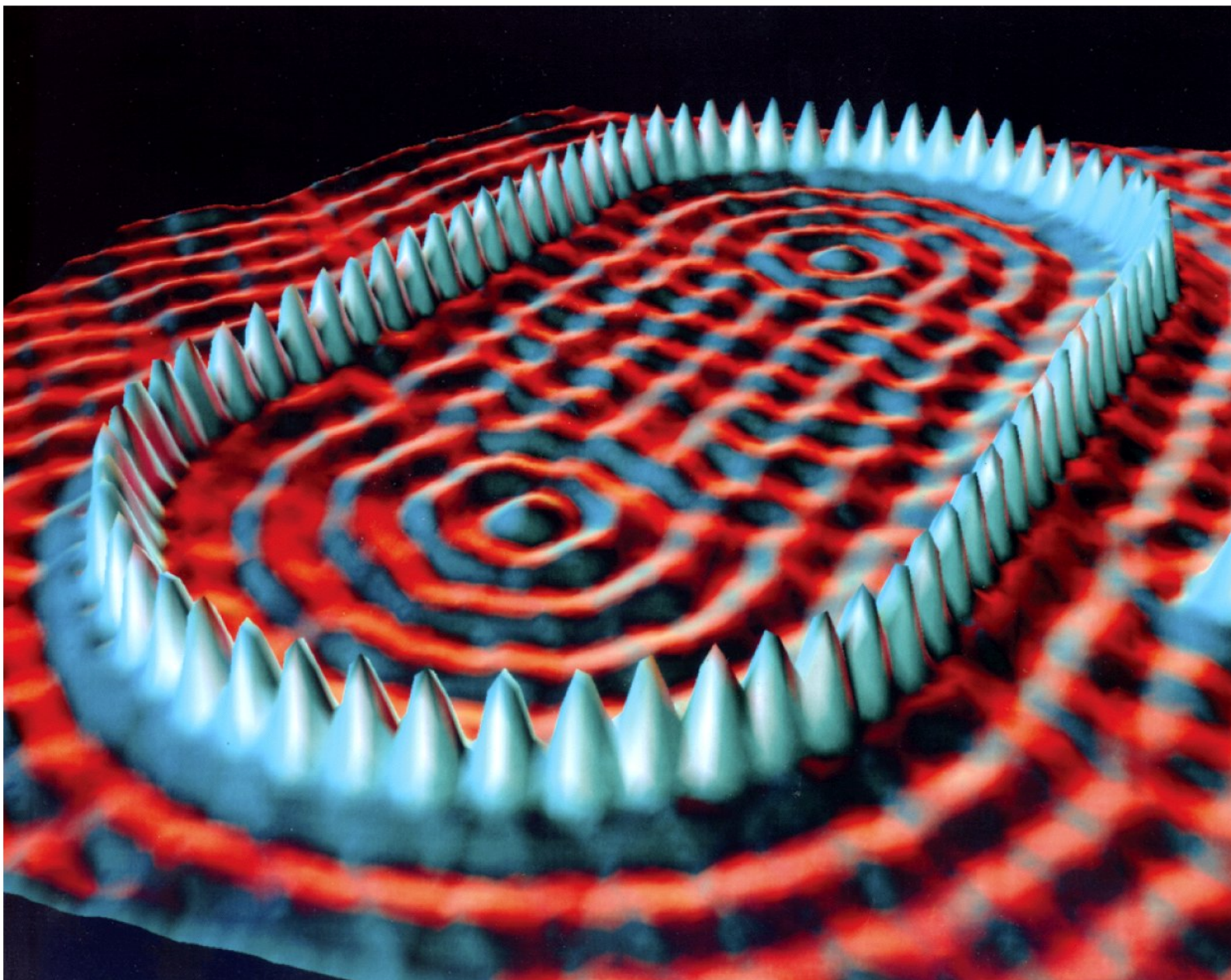


Figure 3-1
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+



Heat



+

+

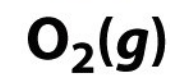


Figure 3-3
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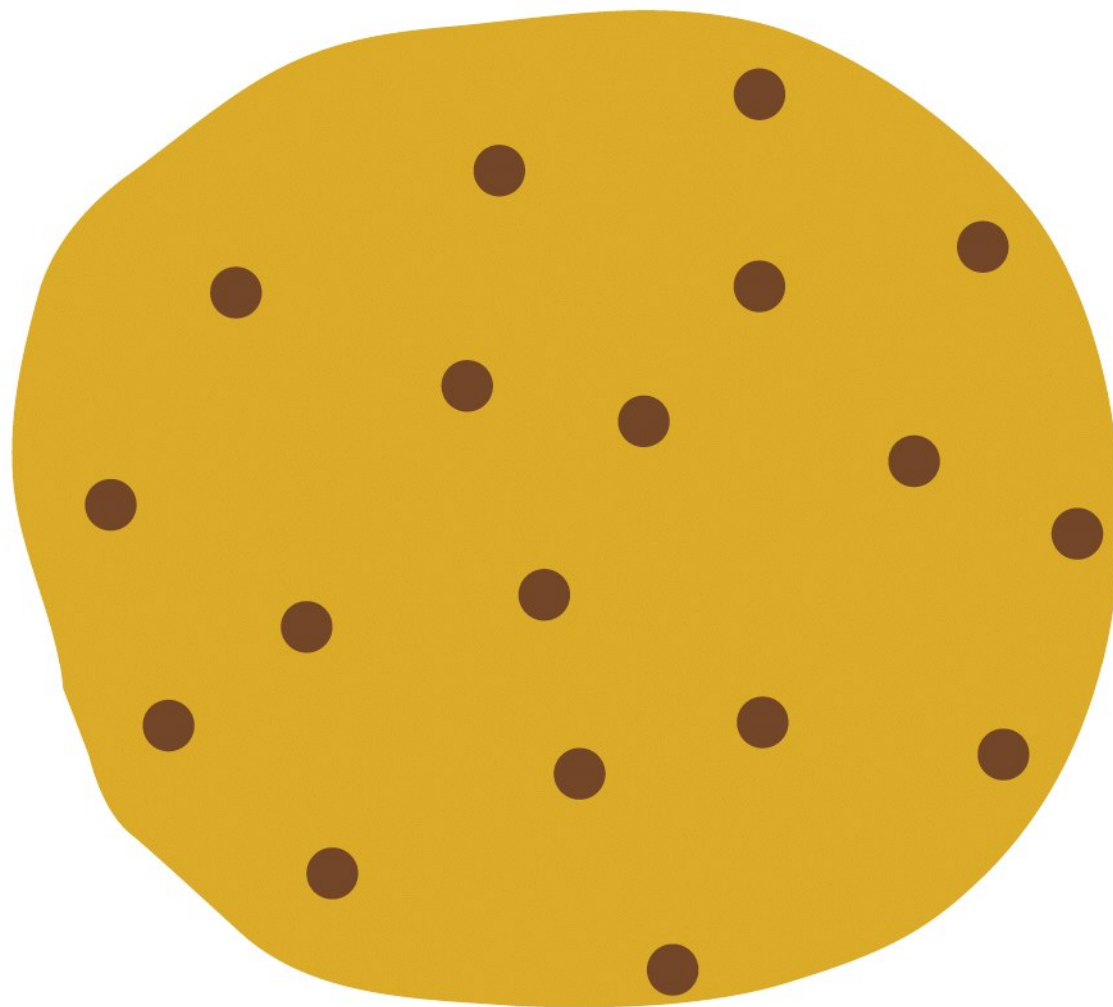
Plum pudding

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Chocolate chip muffin

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Plum pudding model

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Table 3.1 Subatomic Particles

Particle	Charge	Mass (amu)	Symbol
Electron	-1	0.0005486	e^{-}
Proton	+1	1.0073	p or p^{+}
Neutron	0	1.0087	n

Table 3-1
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Periodic table information

79
Au
Gold
196.9665

Atomic number (Z)
(Number of protons)

Element symbol (X)

**Atomic mass, NOT
atomic mass number (A)**

Isotope symbol

Atomic mass number (A)
(protons + neutrons)



Figure 3-9
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Springfield Police Department 4-week robbery

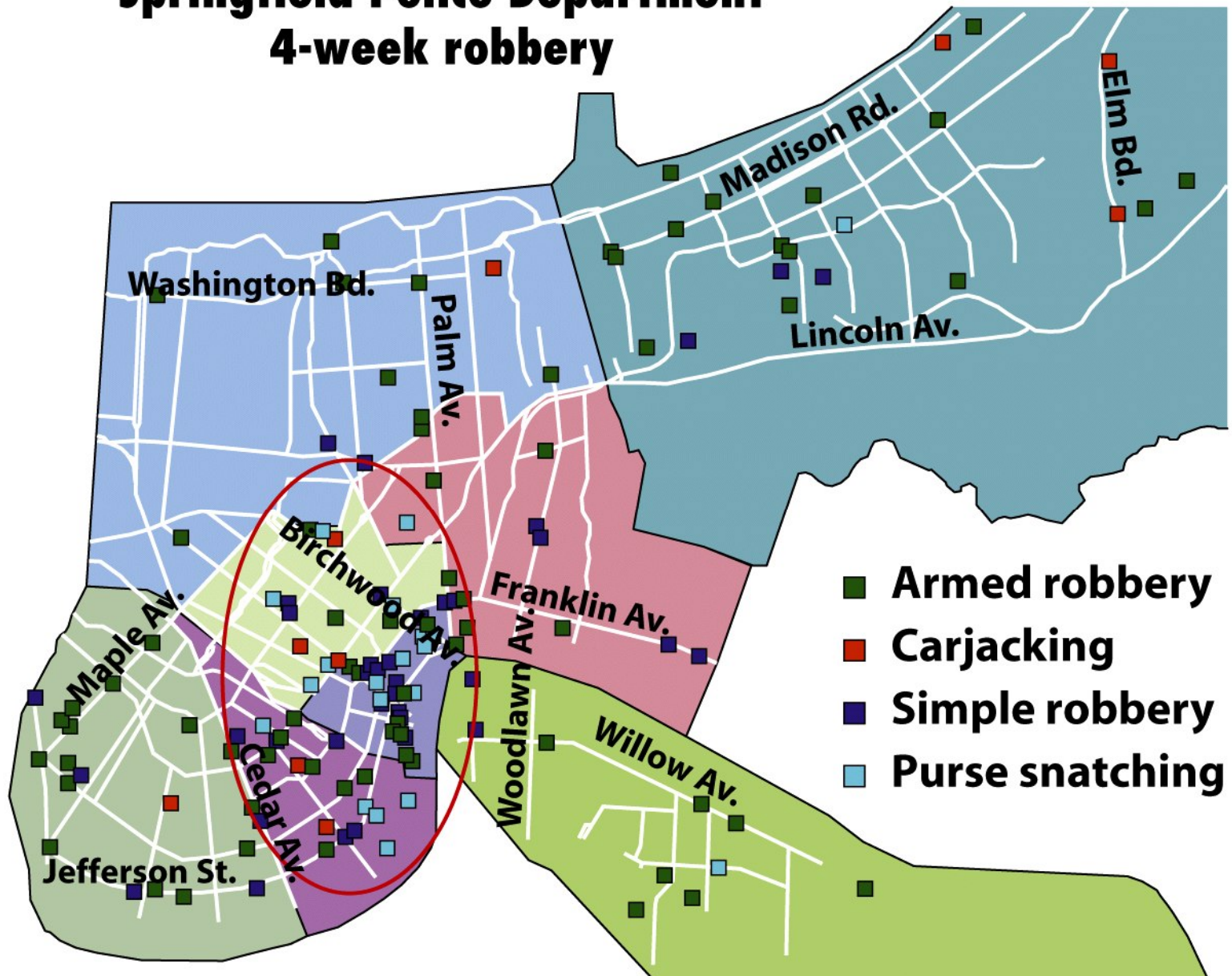


Figure 3-14
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