

1.47b $\frac{6 \text{ mg Elix}}{\text{Kg Pt.}}$, $\frac{? \text{ mg Elix}}{150 \text{ pounds Pt.}}$

$\frac{6 \text{ mg Elix}}{1 \text{ Kg}}$	$\frac{1 \text{ Kg}}{2.2 \text{ pounds}}$	$\frac{150 \text{ pounds}}{1}$	=	409.1 mg Elix
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conversion factor

Sep 13-8:41 AM

1.47d $\frac{1 \text{ pound beans}}{50 \text{ cups coffee}}$, $\frac{4 \text{ cups}}{1 \text{ QT}}$, $\frac{? \text{ ml coffee}}{1 \text{ g beans}}$

$\frac{50 \text{ cups coffee}}{1 \text{ pound beans}}$	$\frac{1 \text{ QT}}{4 \text{ cups}}$	$\frac{1000 \text{ ml}}{1.0567 \text{ qt}}$	$\frac{1 \text{ pound}}{453.59 \text{ g}}$	=	$\frac{26.06 \text{ ml}}{1 \text{ g}}$
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Volume ^{ml} coffee
mass beans

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CHAP2

* Plato
 } Aristotle
 } Democritus → "Atomos" indivisible

~ (100 AD) · Smallest possible piece

1800's Dalton

Ca⁺² Cl⁻¹
CaCl₂

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Subatomic particles

GOLD FOIL

Rutherford

+2

Alpha
Particle

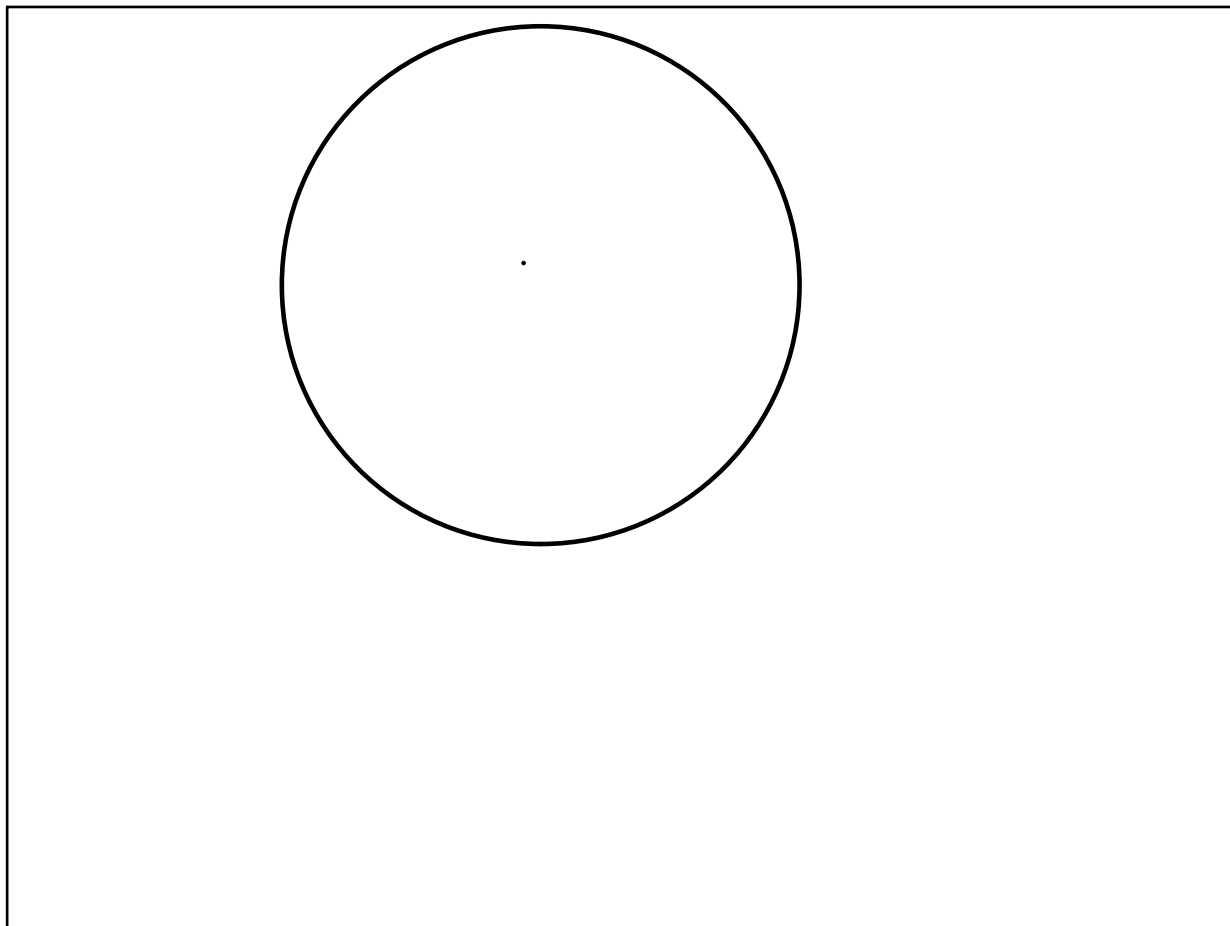
ZnS
ZnO

At mass 4

At # 2 He

(#p)

Sep 13-9:10 AM



Sep 13-9:16 AM