

MIDDLE SCHOOL SCIENCE STAAR REFERENCE MATERIALS



FORMULAS

$$\text{Average speed} = \frac{\text{total distance}}{\text{total time}}$$

$$s = \frac{d}{t}$$

$$\text{Net force} = (\text{mass})(\text{acceleration})$$

$$F = ma$$

$$a = \frac{F}{m}$$

DRAFT

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PERIODIC TABLE OF THE ELEMENTS

1	1A	1 H 1.008 Hydrogen	2	2A											13	14	15	16	17	18	8A
2		3 Li 6.94 Lithium	4												5	6	7	8	9	10	
3		11 Na 22.990 Sodium	12		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
4		19 K 39.098 Potassium	20		3B	4B	5B	6B	7B	8	9	10	11	12	13	14	15	16	17	18	
5		37 Rb 85.468 Rubidium	38		Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	31	32	33	34	35	36	
6		55 Cs 132.91 Cesium	56		Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	81	82	83	84	85	86	
7		87 Fr	88		Lr	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	113	114	115	116	117	118	
		Francium	Radium		Lawrencium	Rutherfordium	Dubnium	Seaborgium	Bohrium	Hassium	Meitnerium	Darmstadtium	Roentgenium	Copernicium	Nihonium	Flerovium	Moscovium	Livermorium	Tennessee	Oganesson	

Atomic number — 14
 Symbol — **Si**
 Atomic mass — 28.085
 Name — Silicon

Atomic masses are not listed for elements with no stable or common isotopes.

Lanthanide Series	57 La 138.91 Lanthanum	58 Ce 140.12 Cerium	59 Pr 140.91 Praseodymium	60 Nd 144.24 Neodymium	61 Pm	62 Sm 150.36 Samarium	63 Eu 151.96 Europium	64 Gd 157.25 Gadolinium	65 Tb 158.93 Terbium	66 Dy 162.50 Dysprosium	67 Ho 164.93 Holmium	68 Er 167.26 Erbium	69 Tm 168.93 Thulium	70 Yb 173.05 Ytterbium
Actinide Series	89 Ac Actinium	90 Th 232.04 Thorium	91 Pa 231.04 Protactinium	92 U 238.03 Uranium	93 Np Neptunium	94 Pu Plutonium	95 Am Americium	96 Cm Curium	97 Bk Berkelium	98 Cf Californium	99 Es Einsteinium	100 Fm Fermium	101 Md Mendelevium	102 No Nobelium