

HRHS Sec 1 Science

Term 3 Study Guide (April & May)

Engineering

P 252 – Be able to discuss the six different types of constraints and give examples.

P 257 – Definition of design plan

P 260 – Definition of technical diagram

P 262 – Symbols for Tension (traction), Compression, Deflection, Torsion, and Shearing.

Symbols for unidirectional and bidirectional motion: translation, rotation, and helical motion

Forces and Motion

P 226 – Definition of force.

P 227 – The effects of forces.

P 228 – Definitions for effects of forces: Tension (traction), Compression, Deflection (Bending), Torsion, and Shearing.

P 234 – 236 – Definition and examples of Motion: uni- and bidirectional translation, uni- and bidirectional rotation, uni- and bidirectional helical motion

P 240 – Distinguish types of links: Removable or non-removable and Complete or partial

Atmosphere

P 167 – 169 – Troposphere, Stratosphere, Mesosphere, & Thermosphere

Temperature variations with altitude

Gaseous composition of atmosphere

Space

P 199 – 201 – Light and 7 properties

P 205 – Earth's rotation; why we have day & night.

P 206 – Earth's tilt; why day length varies north to south

P 209 & 201 Tilt & revolution around sun: seasons, solstices, & equinoxes

P 213 & 214 – Why we have phases of the Moon, and what they are called.