

## 8.4 Natural Systems Study Guide

This guide will help you know what pages to study from your binder for the 8.4 Natural Systems final.

Concept	Details	Binder Pages
Vocabulary	All vocabulary from the 8.4 Natural Systems Unit	54, Quizlet
Natural/Synthetic	Know the difference between natural and synthetic items	Back of 55
Natural/Synthetic	Know the natural materials synthetic materials are made from	Back of 55
Advantages/ Disadvantages of Natural/Synthetic	Know advantages of natural and synthetic materials	56
Properties of Fibers	Be able to read a chart and know which fiber to choose for different uses (see back of worksheet)	57
Formation of Resources	Know how coal, oil & natural gas, and metals are formed	61
Renewable/ Non-Renewable	Know the difference between renewable and non-renewable and examples of each.	Back of 62
Distribution of Resources	Know that resources are Unevenly distributed and the reasons why	60
Hazards	Know effects of hazards	67

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	Acrylic	Cotton	Nylon	Polyester	Viscose
Source	Polyacrylonitrile derived from coal, air, water, and limestone	Plant fibers	Organic compounds derived from coal, petroleum, or plant oils	Polyethylene terephthalate derived from petroleum	Cellulose obtained from wood pulp and then treated
Flammability	Burns with yellow flame	Burns	Melts slowly; does not burn	Burns slowly	Burns rapidly
Effect of Sunlight	Little or no effect; very resistant to UV radiation	Loss of strength after long exposure	No change in color; some loss of strength after a long exposure	No change in color; some loss of strength	Mostly resistant; loss of strength after long exposure
Water absorption	1-3%	7-11%	4%	Less than 1%	15%
Strength	Fair to Good	Good	Exceptionally high	Good to Excellent	Fair

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