

Grab 'N Go Kit

Goods from the Woods

Goods from the Woods Overview:

Students will understand that many products that they use come from trees.

Items in kit:

- Background Sheet
- Toothpaste
- Sunkist orange soda
- Hand lotion
- Dishwashing liquid
- Glue
- Chewing gum
- Cinnamon
- Crayons
- Instant hot chocolate
- Cellophane tape
- Cookies
- Facial tissue
- Aspirin
- Coffee

Through research and advances in technology, we have learned to convert tree fibers and paper-pulping residues into a wealth of products. In fact, there are more than 5,000 wood and paper products that we use and enjoy each day—everything from baby food and ice cream, to rayon and paint, to toothpaste, cosmetics, medicine and household cleaners. But what makes all of these products special is that they come from a renewable resource—trees.



Unlike fossil fuels, metals, and plastics, wood can be harvested again and again in a never-ending cycle. With proper forest management, we can enjoy thousands of products and still have plenty of trees for wildlife habitat, clean air and water, recreation and aesthetic beauty today and in the future.

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Toothpaste

Toothpaste contains cellulose gum (Xanthum gum), a natural product derived from wood. The gum acts as a binder and provides a creamy texture.

Toothpaste may also contain terpenes, a chemical derived from wood that is used to sweeten

the spearmint or peppermint flavor of many toothpastes and mouthwashes.



Soft Drinks

Many citrus flavored soft drinks contain chemicals from trees called esters. Esters, which

are derivatives of wood rosin, act as a weighing agent and assure a uniform distribution of the citrus flavor throughout the drink.



Lotion

Many beauty products, including lotions, contain Vitamins A and E, which come from wood extracts.

Many skin lotions also contain stearic acids that are derivatives of fatty acids produced during the papermaking process.



Dishwashing liquid

Detergents, soaps and shampoos, are made from crude fatty acids derived from wood. The lemon scent of some dishwashing liquids and furniture polishes comes from trees during pine turpentine processing.



Glue

Glues and adhesives can be made from hard resins, a natural substance that comes from trees.



Chewing gum

Chewing gum is made by using the rosin or storax of trees such as spruce. Chewing gum may also contain terpenes, a group of pine derivatives used to sweeten peppermint and spearmint oils used as flavorings.



Cinnamon

Many spices used in cooking—such as nutmeg, bay leaves and cinnamon—come from trees. Cinnamon is made from the bark of the laurel tree which grows in India and Sri Lanka.



Nutmeg is the seed of several species of trees in genus *Myristica*. They grow in the Banda Islands in the Moluccas of Indonesia.



Crayons

Carnauba wax, a resin produced by the leaves of the carnauba tree, is the waxy component of crayons. Carnauba wax is also used in car wax, and as a finish coating on furniture, produce (such as apples and pears) and a wide variety of other products.

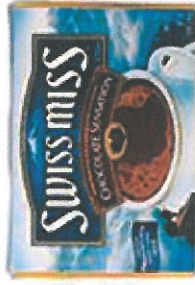


The pharmaceutical industry uses it to coat pills, and it is a major ingredient in lipstick and other cosmetics.

Instant hot chocolate

Instant hot chocolate contains cellulose or methylcellulose, the main building block of wood. This form of cellulose acts as a thickening and binding agent.

If it says cellulose, it probably comes from trees.



Cellophane tape

Cellophanes are derived from the sugar components of wood during the pulping process and are used in making such products as wrap and tape.



Cookies

Many baked goods contain cocoa from the seeds of the cacao tree, and vanillin, an artificial flavoring made from wood.



Facial tissue



Cellulose is the structural component of the primary cell wall of green plants, Cellulose is the most common organic compound on Earth. The cellulose content of wood is 50 percent.

For industrial use, cellulose is mainly obtained from wood pulp and cotton. It is mainly used to produce paperboard and paper; to a smaller extent it is converted into a wide variety of derivative products such as cellophane and rayon.

Medicine

Aspirin tablets and other medicines in tablet form are held together with lignin, which is the natural glue in wood. The essential elements of aspirin come from the bark of wil-low trees. Many other medicines used in treating diseases such as high blood pressure and Parkinson's disease also contain various wood derivatives.



Coffee

The nuts and seeds of many trees provide food for both humans and animals. Most of the world's coffee is obtained from the berries of the Arabica coffee tree. Other edible nuts and seeds include pine kernels, walnuts and pecans.





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