

The background of the slide is a repeating pattern of hexagons, resembling a honeycomb. Each hexagon is filled with a gradient of yellow and orange, and the hexagons are outlined in black. The pattern is consistent across the top and bottom of the slide, with a solid black horizontal band in the middle.

PCBA

Honey & Beeswax

The Options Are Endless

Discussion Topics

- Honey – beyond the nutritional benefits
- Soap Making with Honey
- Beeswax
 - Candles
 - More
 - Recipes

Benefits

- “Raw honey is incredible for your skin thanks to its antibacterial properties and hefty serving of skin-saving antioxidants,” natural beauty expert Kim Wallace
- "Honey has natural antiseptic and anti-inflammatory properties," says Dendy Engelman, MD, a New York City-based dermatologic surgeon.

Honey – Beyond the Biscuit

- **Moisturizing Face Mask** - With its moisturizing and soothing effects, raw honey can hydrate the skin, leaving it soft and radiant. The sugars in honey act as natural humectants (retains moisture) and emollients that increase the water content and reduce dryness in the skin even after they have been washed off.
- **Gentle Exfoliant** - Since raw honey crystalizes over time, the tiny granules act as a gentle exfoliant. They start to break down when they come into contact with water and the heat of your skin making for a gentle scrub. And since it's antibacterial, you can use it for your daily face wash.

Honey – Beyond the Biscuit

- Scar Healing Properties - The antioxidant properties in honey (particularly buckwheat honey) nourish damaged skin.
- Bath Soak - Take a honey-infused soak. Honey's hydrating powers will leave skin silky soft. Make it at home by mixing two big tablespoons of raw honey into one cup of hot water until the honey is dissolved. Pour it into a tub of warm water to soak. You can also use a pre-made version if that's more your style. – AND MORE!

Buckwheat Honey

What is buckwheat honey?

- Buckwheat honey is a highly nutritious honey made by bees that collect nectar from buckwheat flowers. Buckwheat has tiny flowers, which means bees that make buckwheat honey have to work extra hard to collect enough nectar.
- Buckwheat honey isn't as sweet as traditional honey. It's also higher in certain antioxidants, so it might actually be better for you than other, sweeter types of honey.
- Buckwheat is rich in vitamins and is considered a very healthy food, so it makes sense that honey made from buckwheat would also be good for you.

What are the benefits of buckwheat honey?

- The primary benefits of buckwheat honey are that it promotes healing in the body, supports immune function, and boosts antioxidants. It's also great for soothing sore throats and coughs. Some people even use honey as a part of their skin care regimen. Buckwheat honey has also been found to help keep blood sugar levels down for people with diabetes.

Soap Making

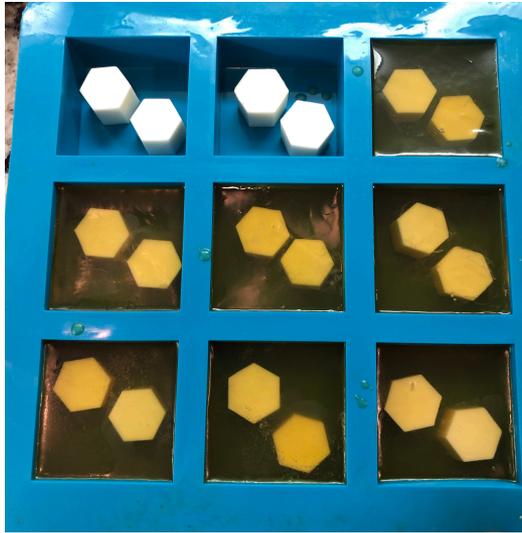
- Three Techniques
 - Hot Process
 - Cold Process
 - Melt & Pour
- **Saponification** - In simple terms, is the name for a chemical reaction between an acid and a base to form a salt. When you make soap using the cold process soap making method, you mix an oil or fat (which is your acid) with Lye (which is your base) to form soap (which is a salt).

Breaking Down M&P

- M&P Cost – \$2.50 per pound
- Additives – Honey (up to 1 tsp), color, fragrances, mica, herbs, exfoliants
- Sources:

<https://www.candlescience.com/>

<https://www.brambleberry.com/>





Lip Balm

Candle Making

- **Waxes**
 - Soy, Paraffin, Coconut, Gel, Palm, Beeswax and Blends
- **Wicks**
 - Wood, cotton core, braid, zinc and others
- **Containers**
- **Types**
 - Containers, pillars, figurines, tapers
- **Bottom Label of a Candle**
- **MUST TEST TO DETERMINE BEST COMBINATION FOR YOUR PROJECT**

Beeswax

- Of all the materials used to make candles, natural beeswax is considered to be the most prestigious, the most elegant and in many cases the most expensive. Candles made with beeswax burn very slowly and cleanly with the sweet aroma of honey, creating a relaxing, intimate atmosphere. Beeswax can be used at 100% or can be blended effectively with paraffin or soy waxes to improve the overall quality. It can also be very beneficial in increasing burn times when blended with paraffin and soy. Beeswax has very little shrinkage and can be used to make container, pillar, votive, novelty or taper candles.



WAX FACTS

- It is used to construct the combs in which the bees raise their brood and into which they store pollen and surplus honey for the winter.
- Worker bees develop special wax-producing glands on their abdomens (inner sides of the sternites of abdominal segments 4 to 7) and are most efficient at wax production during the 10th through the 16th days of their lives.
- Bees consume honey 6-8 pounds of honey are consumed to produce a pound of wax.



WAX FACTS

- Wax Management - worker bees are willing to remove the wax scales from their neighbors and then chew them. The other method is for the same bee extruding the wax to process her own wax scales. This is done using one hind leg to move a wax scale to the first pair of legs (forelegs). A foreleg then makes the final transfer to the mandibles where it is masticated, and then applied to the comb being constructed or repaired.



The Process

Easy Recipes

- **Beeswax Lotion Bars**
- Author: Soap Queen Serves: 6 lotion bars
- This lotion bar is made with skin loving shea butter, olive oil and beeswax! Ingredients
- 6 Cavity Guest Bee Silicone Mold
- 3.5 oz. Olive Oil
- 3.5 oz. Shea Butter
- 2.5 oz. Yellow Beeswax
- 3 mL Pure Honey Fragrance Oil Droppers

- In a small heat safe container, combine the olive oil and yellow beeswax. Place in the microwave and heat using 30-60 second bursts until fully melted. Beeswax has a high melting point and can take a while to fully melt. Because of this, don't use a glass container with too much head space. The container can actually explode if it gets too hot! Once melted, remove from the microwave carefully, as the mixture will be very hot.
- Add the shea butter and stir. The heat from the mixture will begin to melt the shea butter. If necessary, place the container back into the microwave and heat using 15-20 second bursts until the mixture is clear.
- Add the Pure Honey Fragrance Oil and stir to completely mix in.
- Carefully pour the mixture into each mold cavity. Allow to fully cool and harden. This will take several hours or up to overnight. Remove from the mold. Store these bars in a cool place, because they can melt slightly in extremely high temperatures!

Additional Recipes

Recipes call for 100% pure beeswax. In each case, melt beeswax gently and safely using a double boiler. Keep beeswax uncovered while melting — you don't want boiling water to condense on the lid and drip into your wax. Do not use a microwave — beeswax can easily reach the flash point and ignite.

Lip Balm

1tblsp beeswax
2 tbsp. coconut oil
2 capsules vitamin E

Herbal Salve

2 ounces beeswax
1 ounce Jojoba oil
3 ounces sweet almond oil
1/2 ounce canola oil
2 tbsp. essential oil of your choice

Moisturizing Cream

1ounce beeswax
4 ounces sweet almond oil
2 ounces water
1 tsp vitamin E oil
1 tsp lavender essential oil

Hand Lotion

1 part beeswax
4 parts olive oil (add a little coconut oil)

Bare Wood Finish

1lb beeswax
1 pint turpentine
1 pint boiled linseed oil
Apply with soft cloth, dry,
then buff with wool

Petroleum Jelly

1ounce beeswax
1/2 cup mineral oil (or baby oil)

Questions