



## Cocoa Loco Berry Buckle Cake in a Mug

By Erin Fletter

**Prep Time 5 / Cook Time 3 / Serves 1 - 2**

### Fun-Da-Mentals Kitchen Skills

**fold:** to gently and slowly mix a light ingredient into a heavier ingredient so as not to lose air and to keep the mixture tender, such as incorporating whipped egg whites into a cake batter or folding blueberries into pancake batter; folding is a gentler action than mixing or whisking.

**melt:** to heat a solid food so it becomes liquid, like butter or chocolate.

**mix:** to thoroughly combine two or more ingredients until uniform in texture.

**whisk:** to beat or stir ingredients vigorously with a fork or whisk to mix, blend, or incorporate air.

**microwave:** to heat or cook food or liquid quickly in a microwave oven, which uses high-frequency electromagnetic waves to generate heat in the food's water molecules.

### Equipment

- ☐ Microwave
- ☐ Microwave-safe mug
- ☐ Potholder
- ☐ Paper towel or dish towel
- ☐ Measuring spoons
- ☐ Liquid measuring cup
- ☐ Metal spoon or small whisk
- ☐ Dry measuring cups
- ☐ Fork
- ☐ Soap for cleaning hands

## Ingredients

### Cocoa Loco Berry Buckle Cake in a Mug

- ☐ 1 T butter **\*\***(for DAIRY ALLERGY sub dairy-free/nut-free butter, like Earth Balance brand)**\*\***
- ☐ 2 T sugar
- ☐ 1/4 C milk **\*\***(for DAIRY ALLERGY sub dairy-free/nut-free milk)**\*\***
- ☐ 1/4 C all-purpose or whole wheat flour **\*\***(for GLUTEN ALLERGY sub all-purpose gluten-free/nut-free flour)**\*\***
- ☐ 4 tsp unsweetened cocoa powder **\*\***(for CHOCOLATE ALLERGY sub carob powder)**\*\***
- ☐ 1/4 tsp baking powder
- ☐ 1 pinch salt
- ☐ 1 handful chocolate chips **\*\***(for CHOCOLATE ALLERGY sub carob chips; for DAIRY/NUT/SOY ALLERGY use Enjoy Life brand chocolate chips)**\*\***
- ☐ 1/4 C frozen berries (your choice)

## Food Allergen Substitutions

### Cocoa Loco Berry Buckle Cake in a Mug

**Dairy:** Substitute dairy-free/nut-free butter, like Earth Balance brand. Substitute dairy-free/nut-free milk. Use Enjoy Life brand chocolate chips.

**Gluten/Wheat:** Substitute all-purpose gluten-free/nut-free flour.

**Chocolate:** Substitute carob powder for cocoa powder. Substitute carob chips for chocolate chips.

**Nut:** Use Enjoy Life brand chocolate chips.

**Soy:** Use Enjoy Life brand chocolate chips.

## Instructions

### Cocoa Loco Berry Buckle Cake in a Mug

#### intro

A berry buckle cake is a single-layer cake, similar to a coffee cake with streusel, with berries, usually blueberries, added to the cake batter. The fruit bubbles as it cooks and as it rises "buckles" the top of the cake. When early settlers came to the Americas, they had to learn how to make new things with the ingredients they had. This is how many recipes were created and still are! Names were given to recipes based on how they looked once they were cooked. Look at your cake, smell it, and taste it once it's cooked. What would you call this Cocoa Loco Berry Buckle Cake in a Mug if you were to rename it?

add + melt + whisk

Add **1 tablespoon of butter** to your microwavable mug and microwave for 30 seconds to melt it. Measure and add **2 tablespoons sugar** and **1/4 cup milk**. Whisk!

measure + mix + fold

Measure and add **1/4 cup flour**, **4 teaspoons cocoa powder**, **1 pinch of salt**, and **1/4 teaspoon baking powder** to the mug. Mix well. Stir in **1 handful of chocolate chips**. Fold in **1/4 cup frozen berries**.

cover + microwave

Cover mug with a damp paper towel or dish towel. Microwave on high for 2 minutes. Check the cake after 2 minutes by poking a fork through the middle. Careful! Handle may be hot! Cake should be pudding-like but not too wet. Microwave for another 30 seconds to cook more. Use a potholder to carefully remove the mug from the microwave. Let cool slightly before topping with whipped cream or **Berry Delicious Soft Serve!**

## Featured Ingredient: Chocolate + Cocoa!

Hi! I'm Chocolate!

"Hello! Let me introduce myself! I can be dark brown, light brown, or even white. I'm sometimes bitter, sometimes a little sweet, and often very sweet. I add flavor and excitement to many other foods! Have you guessed yet? I'm Chocolate! You may be familiar with me from candy bars or chocolate sundaes, but I can liven up many other foods, too, including chili, butter, and milk!"

### History

The cacao (kahKOW) tree is native to equatorial South America and the rainforests of Mesoamerica. It was first used 5,300 years ago by indigenous people in South America. Mesoamericans who lived in the rainforests of Mexico and Central America domesticated the tree about 1,500 years later. They drank chocolate as a bitter beverage—far from the sweet treat most of us are familiar with today.

The Mayan people of Central and South America used cocoa as currency and as medicine: it was very valuable, just like vanilla! In fact, it was so precious that they made counterfeit cocoa beans out of clay and avocado seeds!

The Aztec people are a nomadic tribe in Northern Mexico. When the Aztec empire began to expand, they demanded that the Mayan people pay tribute to them through gifts of cacao.

The Aztec people ruled until Spaniards arrived and conquered the land and its people. The Spanish explorers took cacao beans back to Europe, where they experimented by adding cinnamon and sugar to sweeten it. For a long time, only aristocratic people enjoyed chocolate.

Princess Maria Theresa married Louis the 16th from France and gave him chocolate as a wedding present! Demand for chocolate soon grew very fast, and as a result, people were enslaved on plantations to grow cacao to meet the high demand.

In 1847, Joseph Fry invented the first chocolate bar. By 1907, Hershey was manufacturing millions of chocolate kisses each day.

Cacao trees grow best in the rainforest underneath the branches of taller trees. However, they won't bear fruit until they are at least three to five years old.

Most early Spanish sources refer to chocolate as "cacahuatl" (cah-cah-Hwat), which translates to "cacao water."

The word chocolate comes from a combination of a Mayan word for hot, "chocol," and an Aztec word for water, "atl."

## How Chocolate is Made

All chocolate comes from the beans of the cacao tree. Cacao trees produce pods containing pulp-covered seeds. Before cacao is processed, it would be hard for most of us to recognize it as chocolate! This is because the pulp-covered seeds taste bitter and raw and look nothing like the chocolate products we see in stores.

The seeds go through a process called fermentation, and then they are dried and made into nibs before being turned into chocolate.

A cacao pod contains about 30 to 50 almond-sized seeds—enough to make about seven milk chocolate candy bars!

After roasting and grinding cocoa beans, chocolate liquor is left, which is about equal parts cocoa solids and cocoa butter. After the cocoa butter is mostly extracted, the result is dry cocoa solids. Cocoa powder is the powdered form. Natural cocoa is a light brown color and tastes bitter.

Dutch chemist Coenraad van Houten created the "Dutch process" method in the early 19th century to reduce the acidity in natural cocoa powder by treating the beans with alkaline salts. As a result, Dutch process cocoa is less bitter and has a dark brown color.

## How to Enjoy Cocoa & Chocolate

You can add unsweetened cocoa to milk with sugar, honey, or stevia for a delicious and warming beverage. You can also add it to smoothies for a delicious chocolaty taste and an extra hit of magnesium and polyphenols.

Chocolate comes in many forms: bars, kisses, chips, powder, shavings, puddings, syrups, and sauces.

Unconventional chocolate flavor pairings: cardamom, lavender, wasabi, chili, chipotle, sea salt, lime, matcha, curry, ginger, mint, figs, fennel, sesame, parmesan, and Earl Grey tea. Seriously, what doesn't go well with chocolate?! Can you think of any other fun and delicious pairings?

## Nutrition

Dark chocolate helps protect your heart, blood, and brain! To get the full health benefits of chocolate, choose at least 85% cocoa content or higher. The higher percentage makes the chocolate more bitter, but those bitter compounds, called polyphenols, are antioxidants that provide several health benefits. Many people prefer very dark chocolate!

Polyphenols help prevent heart disease by maintaining healthy blood pressure levels, keeping vessels flexible and allowing the blood in our body to flow easier (good circulation), and reducing inflammation. In addition, they help control blood sugar levels, lower cancer risk, and boost immunity. Polyphenols also promote good digestion.

Cocoa is a great source of magnesium. We need magnesium for good health! For strong bones, healthy teeth, and as a building block for proteins within the body.

Cocoa can protect our teeth?! Cacao contains antibacterial elements that fight tooth decay. However, this is true with unsweetened cocoa only, as most mass-produced chocolate has a lot of sugar. We know what sugar does to our teeth—it causes decay!

One study has shown that the smell of chocolate may actually relax you by increasing theta waves in the brain!