

Chemistry Cookie Project –Chocolate Chip

- In this lab you will be converting a recipe from moles to standard cooking measurements and then using that recipe to bake some cookies!
- You will need the following tables in order to convert your recipe:

Molecular Formula Table

Use the following molecular formulas to calculate grams of ingredients.
NOTE: Most of these substances have extremely complex molecular formulas.
I have greatly simplified your project by listing a representative formula only.

Alum	$\text{C}_6\text{H}_{12}\text{O}_6$
Baking Soda	NaHCO_3
Baking Powder	NaHCO_3
Brown Sugar	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$
Butter	$\text{C}_8\text{H}_{18}\text{O}_2$
White (Granu) Sugar	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$
Chocolate	$\text{C}_8\text{H}_8\text{O}_4$
Cinnamon	$\text{C}_9\text{H}_{10}\text{O}$
Chocis	$\text{C}_{10}\text{H}_{12}\text{O}_3$
Cream of tartar	$\text{KHC}_4\text{H}_7\text{O}_6$

Flour	$\text{C}_6\text{H}_{12}\text{O}_6$
Lemon Juice (Citric)	$\text{C}_6\text{H}_8\text{O}_7$
Margarine	$\text{C}_{18}\text{H}_{34}\text{O}_2$
Milk	85% H_2O 15% $\text{C}_8\text{H}_{16}\text{O}_6$
Molasses	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$
Pepper	$\text{C}_{11}\text{H}_{15}\text{O}_5\text{N}$
Salt	NaCl
Vanilla	$\text{C}_8\text{H}_8\text{O}_3$
Eggs	$\text{C}_8\text{H}_{16}\text{O}_6\text{N}_2$

Unit Conversions

Use the following conversions to get from grams to a standard cooking unit of measure.

1 teaspoon of baking soda = 2.84g
 1 teaspoon of vanilla extract = 4.73g
 1 large egg = 50g
 1 cup flour = 141.95 g
 1 teaspoon salt = 4.16 g
 1 cup butter = 236.59 g
 1 cup sugar = 198.73 g
 1 cup brown sugar = 141.46 g
 1 ounce chocolate chips = 28.35 g
 1 tablespoon lemon juice = 14.20 g
 1 teaspoon baking powder = 2.84 g

1 teaspoon cream of tartar = 2.84 g
 1 teaspoon cinnamon = 2.84 g

Chemistry Cookie Project Chocolate Chip Answers

Marci Haines



Chemistry Cookie Project Chocolate Chip Answers:

Exciting Inventions Gr. 4-8 Marci Haines, 2003-01-01 A baker who liked to throw around empty pie tins invented the Frisbee An eleven year old boy invented the Popsicle after he left his soda pop and water concoction on the back porch one winter Exciting inventions is sure to motivate and maximize your students learning outcomes Core content direct instruction format student activities to demonstrate knowledge and a reproducible student handbook are included Plenty of optional lessons are also included This lesson is filled with major project ideas to create and display original inventions at an Invention Convention This Physical Science lesson provides a teacher and student section with a variety of reading passages activities crossword word search and answer key to create a well rounded lesson plan

The Moonlight Clockmaker - A fairy tale with a moral (bedtime story) , The story tells of nine year old Luna who has stopped believing in magic and imagination Chronos the Moon Clockmaker takes her on an extraordinary journey to three magical places The Library of Unwritten Stories where she learns that her own life is a story worth telling The Garden of Tomorrow where she discovers that the future is a garden of possibilities The Cave of First Wonders where she remembers that reality itself is magical The fairy tale consists of twelve chapters plus an epilogue filled with original dialogues It shows how Luna not only regains her belief in magic but also teaches other children to believe founding the Wonder Club The story emphasizes that true magic lies in paying attention to the world around us in learning nature and everyday moments The tale ends twenty years later when Luna has become a teacher who still helps children see the wonder in reality

Chocolate Chip Cookies Lynnae Allred, Shandee Lynn Lott, 2025-03-30 Dive into a full color fun filled adventure that mixes step by step cookie baking instructions with mouthwatering photographic illustrations science and history Follow every detail from mise en place to the final golden cookie and uncover the chemistry behind caramelization the Maillard Reaction and more Along the way meet culinary trailblazers like Auguste Escoffier Joseph Dombey Caroline S Brooks and others who transformed everyday ingredients into legends With humorous engaging stories that show anyone can follow a recipe but a chef creates one This book inspires young bakers to explore experiment and think like a chef in every delicious moment

The 47 Best Chocolate Chip Cookies in the World Larry Zisman, Honey Zisman, 1983-10-15 Chocolate chip cookies are a true American delicacy at the Toll House restaurant near Boston Ruth Wakefield invented the very first toll house cookies with chopped up bits of a Nestle s chocolate bar Originally inspired by a contest to find the best cookies in the nation The 47 Best Chocolate Chip Cookies in the World spans the kitchens of America from Muskegon Michigan to Costa Mesa California and includes delectable tidbits of cookie lore did you know that Napoleon always carried chocolate into battle with him for quick energy The only thing better than this book is a box of chocolate chip cookies Chocolate Chip and Macadamia Nuts Bavarian Mint Chippers Almond Chip Drops Italian Chocolate Chip Cookies Chocolate Chip Pizza Sweet and Wholewheat Cookies And More

The Search for the Perfect Chocolate Chip Cookie Gwen Steege, 1988 One hundred recipes selected from 2 600

entries in a national contest Also offers history facts about ingredients and tips on baking and storing **A Baker's Field Guide to Chocolate Chip Cookies** Dede Wilson,2011-09-27 America s favorite cookie gets the star treatment with 75 recipes ranging from kid friendly to all grown up using every variety imaginable of chocolate chips and chunks Each cookie is photographed in full color and the fun field guide format gives the details of each cookie species with entries on Type Description Field Notes Lifespan and Related Species Special graphic icons show which cookies are good to make with kids which freeze well which are quick to make and more It s a must have for chocolate lovers **Chocolate Chip Cookie School** Susie Wyshak,2015-12-08 Imagine a world without chocolate chip cookies In this middle grade book and workbook kids learn critical thinking through cookies As Cookie Detectives they journey through time and space to trace all the events and turning points that led to the chocolate chip cookie s invention Then they embark on project based learning to plan a chocolate chip cookie business or bakesale The Cookie Detectives become Cookie Entrepreneurs reading stories analyzing facts thinking about legends and building curiosity They will see the benefits of risk taking and innovation perseverance and how all the lessons they learn in school relate to the real world The Chocolate Chip Cookie School makes a great book for a unit home school and unschool learning experiences which kids can read and collaborate on as a project based learning group or by themselves Printable exercises and worksheets will help using the book for fun lessons While the book includes a couple of recipes and details about the chemistry and costs of cookie making in the end kids will appreciate ALL the food they eat and think deeply and appreciate not only food but everything they consume The best part is kids will come to these conclusions by themselves as they wear their Cookie Detective hats [Cookie Recipes 4 Love 50 Shades of Chocolate Chip Cookies Cookbook](#) Katie Canty,2016-05-04 Win the annual chocolate chip cookie of the year recipe contest Meet the 4 o clock cookie rule folks recipes 4 love Fifty Shades of Chocolate Chips is a new cookbook that launches into a rich exciting loving experience with chocolate as chocolate chip cookies and includes everything from flourless cookies to Love Potion 10 to Bacon to NC Orange Panthers to Democrats and Republicans and to military husbands and wives chocolate chip cookie recipes If you are into cookies frequently or just occasionally and want an interesting taste experience or are looking for a present for the CHOCOLATE CHIP COOKIE LOVER S in your life this title is for you and yours *The Secret Life of Chocolate Chip Cookies* Marissa Rothkopf Bates,2025-09-16 America s Favorite Cookie Just Got Even Better Did you know that the most popular cookie in the country was created at a tiny inn in eastern Massachusetts And that the recipe may have only sold for 1 Marissa Rothkopf Bates professional chef and host of The Secret Life of Cookies podcast showcases these fascinating facts alongside a collection of delectable recipes that pay homage to the classic butter cookie Recipes include The Crun Chewy Brownie Chocolate Chip Thins Brown Butter and Honey Chocolate Chip Cookies S cookies Lemon White Chocolate Macadamia Nut Cookies Rainbow Sprinkle Cream Cheese Chocolate Chip Cookies Raspberry Hazelnut Chocolate Chip Cookies Recreate classics with recipes for The Original Toll House Cookie and The Original Nut Tea Wafers then take

your baking to new heights with 60 innovative treats Whether you like your cookies crispy chewy cakey or crun chewy you ll marvel at all of the possibilities No matter what page you land on you re guaranteed to fall back in love with an old favorite and discover a new one while learning all there is to know about America s favorite cookie **Big Data, Yummy Cookies**

Chelsea Ellison,2017-06 Big Data Yummy Cookies shows bakers how one chart can be used to generate 100 s of recipes With a collection of these dynamic charts the book is able to list and compare every chocolate chip cookie recipe This means bakers can easily alter their favorite recipes and correct bad recipes or make their own recipes based off their preferences Therefore no longer do bakers have to use inflexible recipes these new dynamic recipes guide bakers in creating the recipes they want **Kate the Chemist** Kate Biberdorf,2022-12 Did you know that cooking is really chemistry And that chocolate

chip cookies will look and taste different if you swap out baking powder for baking soda Or swap out brown sugar for white sugar This cookbook has 25 edible science experiment recipes kids can do in their own kitchen **1, 2, 3 Make Cookies**

with Me Heather Fry,2021-12-21 1 2 3 Make Cookies with Me allows children to count the ingredients and make a batch of chocolate chip cookies Illustrations show ingredients being placed in a bowl and introduces the concepts of measuring and fractions Whether you are learning to count learning to read or just like cookies you will enjoy this fun little counting book

101 Perfect Chocolate Chip Cookies Gwen W. Steege,2016-08-01 **The Complete Chocolate Chip Cookie Book** Bob Stat,Suzanne Stat,1982 Presents a collection of easy to follow recipes for a wide variety of delicious chocolate chip cookie treats How the Cookie Crumbled Gilbert Ford,2017-10-24 Provides facts about the chocolate chip cookie inventor

and imagines what could have led her to develop the Toll House cookie recipe which include a possible cooking disaster an ingredient substitution and an original idea *Chocolate Chip Cookies* Joanne Mattern,2020-01-01 Nothing beats the smell of fresh chocolate chip cookies baking in the oven This title takes readers through the creation of this delicious dessert how it gained popularity and the different forms it takes today Recipes a timeline and other informative features represent

information visually for learners of all types in this low level read *The World's Greatest Chocolate Chip Cookie* Peter

Murray,1993 Very thorough instructions for making chocolate chip cookies *Chocolate Chip Cookie Recipe* ,2020 Here is a easy recipe on how to make chocolate chips cookies at home *Chocolate Chip Cookies* Catherine C. Finan,2023 Chocolate

chip cookies are delicious but did you know they were a mistake Oops Learn the story of how this accidental invention turned into a favorite treat Simple text and fun photos prove we can create wonders from whoops es

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