

CHRISTMAS SCAVENGER HUNT

CLICK THROUGH THE 2017 COMPOUND CHEMISTRY ADVENT CALENDAR TO FIND THE ANSWERS TO THE CLUES (IN NO

<p>WHAT TYPE OF COMPOUND CONTRIBUTES TO THE NUTTY, COCOA-Y AROMA OF CHOCOLATE?</p>	<p>CHRISTMAS "CRACKERS" ARE PAPER AND CARDBOARD BOXES CONTAINING _____ WHICH DENOTES WHEN FRICTION IS CREATED AS YOU TUG ON THE ENDS.</p>	<p>HARRY HOLIDAY HUNTING! _____ IS PRODUCED, GIVING GINGERBREAD ITS SWEET AROMA.</p>	

The Smell of Chocolate

WHAT TYPE OF COMPOUND CONTRIBUTES TO THE NUTTY, COCOA-Y AROMA OF CHOCOLATE?



The Orange Peel Flamethrower

SQUEEZING AN ORANGE INTO A FLAME (CAREFULLY) CAN IGNITE THE OILS CONTAINING _____ WHICH GIVES CITRUS FRUITS THEIR SCENT.



Gingerbread Chemistry

WHEN GINGEROL IS HEATED, THE COMPOUND _____ IS PRODUCED, GIVING GINGERBREAD ITS SWEET AROMA.



Christmas Tree Aroma

ALPHA- AND BETA- _____ ARE RESPONSIBLE FOR "CHRISTMAS TREE SMELL".



Making Fake Snow

SODIUM POLYACRYLATE IS A POLYMER USED TO MAKE FAKE SNOW, WHICH ABSORBS _____ ITS WEIGHT IN WATER.



The Chemistry of a Christmas Cracker

CHRISTMAS "CRACKERS" ARE PAPER AND CARDBOARD TUBES CONTAINING _____ WHICH DETONATES WHEN FRICTION IS CREATED AS YOU TUG ON THE ENDS.



Snow Globe Chemistry

BENZOIC ACID IS USED TO MAKE "SNOW" IN SNOW GLOBES BY _____ THE WATER TO DISSOLVE IT. AS THE WATER _____ A PRECIPITATE IS FORMED.



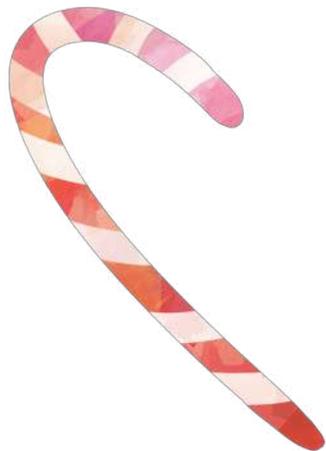
The Relighting Candle Trick

YOU CAN RELIGHT A CANDLE WITHOUT TOUCHING A FLAME TO THE WICK BY LIGHTING THE SMOKE OR _____ JUST AFTER YOU BLOW IT OUT.



Candy Cane Chemistry

WHAT IS THE COMPOUND THAT MAKES YOUR MOUTH FEEL COLD AFTER EATING PEPPERMINT?



Christmas Light Chemistry

THIS SEMICONDUCTOR IS ONE OF THE MAIN ELEMENTS INVOLVED IN THE CREATION OF COLORED LED LIGHTS.



Bell Metal Compositions

BELLS ARE USUALLY MADE OF BRONZE, WHICH IS AN ALLOY OF COPPER AND TIN ALONG WITH OTHER METALS. WHAT IS THE PERCENT MASS OF COPPER IN BRONZE?



The Holly and The Ivy

HOLLY AND IVY CONTAIN ALKALOIDS WHICH ARE MILDLY TOXIC. SURPRISINGLY ONE OF THESE ALKALOIDS, _____ IS ALSO FOUND IN SMALL AMOUNTS OF CHOCOLATE.



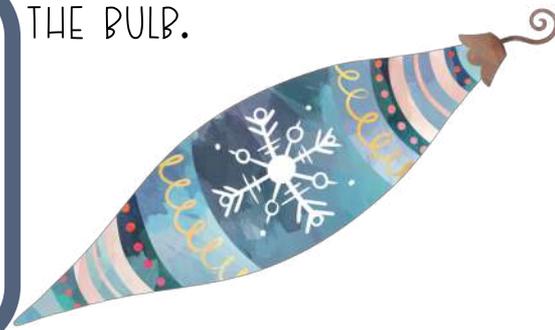
Poinsettia Plant Indicator

POINSETTIAS CONTAIN A CLASS OF COMPOUNDS CALLED _____ THAT CAN BE USED AS pH INDICATORS.



Silver Bulbs

TO MAKE SILVER ORNAMENTS, SILVER NITRATE, FOLLOWED BY AMMONIA, AND FINALLY _____ ARE USED TO PRODUCE THE SHINY SILVER COATING INSIDE THE BULB.



Wrapping Paper and Tape

BOTH WRAPPING PAPER AND TAPE ARE BASED ON THE PLANT CARBOHYDRATE _____ (THE FIBER IN PLANT CELL WALLS).



Mulled Wine Chemistry

EUGENOL AND _____ HELP GIVE MULLED WINE, A SEASONAL DRINK, ITS FLAVOR.



Poisonous Mistletoe

MISTLETOE CAN BE TOXIC IF INGESTED DUE TO THE PRESENCE OF THESE TWO TOXIC PEPTIDES.



The Smell of Winter Fires

THIS TYPE OF COMPOUND PRODUCES A SPICY WOOD AROMA.



Cranberry Chemistry

CRANBERRIES HAVE _____ EFFECTS, BUT EVIDENCE FOR THESE EFFECTS IN HUMANS IS CURRENTLY LIMITED, AND MORE RESEARCH IS REQUIRED.



The Aroma of Frankincense

HOW MANY CARBON ATOMS ARE IN OLIBANIC ACID?



Flaming Christmas Puddings

THE BLUE FLAME IS DUE TO COMPLETE REACTION OF THE _____ VAPORS WITH OXYGEN IN THE AIR.



Brussels Sprouts Chemistry

SINIGRIN AND PROGOITRIN CONTRIBUTE TO THE _____ OF SPROUTS.



Christmas Turkey

WHAT COMPOUND GIVES TURKEY ITS SWEET, CARAMEL-LIKE FLAVOR?



The Chemical History of Tinsel

TINSEL WAS ORIGINALLY MADE FROM STRANDS OF _____ WHEN IT WAS FIRST INVENTED AROUND 1610 IN GERMANY.

