

Speaking in Pairs (5')

# What is a chemical reaction?



Do we see chemical reactions when we cook?

#### (2º-3º) Physical & Chemical Changes

https://www.youtube.com/watch?v=x49BtB5dOwg

PHYSICAL CHANGES – 0' 52" CHEMICAL CHANGES – 3' 09" DIFFERENCES – 4' 15"

EXTRA Chemical Reactions in Spanish

https://www.youtube.com/watch?v=OU1KswXaJhA

(3°) With a partner, create and write a short definition for <u>chemical reaction</u> in English (5')

#### Definition

Chemical reaction: a process during which the molecular structure of a substance changes.

Reacción química: un proceso en el cual una sustancia se transforma, cambiando su estructura molecular.

### (2°) Disney+ Eddie's Million Dollar Cook-Off

#### Viewing Scenes:

- 1. 24:50-27:27
- 2. 57:38-58:55

## (2°) Disney+ Eddie's Million Dollar Cook-Off

Can we see a chemical in the first scene (24:50-27:27)?

Why or why not? (3 minutes)



Can we see a chemical reaction in the second scene (57:38-58:55)?

Why or why not? (3 minutes)



## (2º) Create your own chemical reaction!

In groups of 3 or 4 people, create two recipes that require chemical reactions.

Write all the ingredients and all the steps to make the food.

Explain each instance of a chemical reaction.



#### **EXAMPLE**

#### **MINI PIZZAS**

INGREDIENTS: FRENCH BREAD, MOZZARELLA CHEESE, TOMATO SAUCE, PESTO, CHOPPED PEPPERONI, CHOPPED GREEN PEPPERS

- 1. Cut bread in half
- 2. Spread the pesto on the two halves of bread
- 3. Spread the tomato sauce over the halves of bread
- 4. Sprinkle pepperoni and green pepper over each half.
- 5. Sprinkle cheese over each half.
- 6. Bake in oven at 190 degrees for twelve minutes.
- 7. Remove from oven and cut into squares.
- B. Enjoy!

There is one chemical reaction in step 6, when the ingredients are cooked and change form.

# (3º) Chemical Reactions on Netflix *Street Food: Buenos Aires, Argentina*

Street Food (TV series) is an American documentary that premiered on Netflix on April 26, 2019. It explores street food around the world.



(3') With a partner, talk about where you see chemical reactions.

(00:00-04:44)



(3') Ask your partner how many chemical processes they think the pizza passes through.

(27:26-24:56)



(3') Do you and your partner think that chemical reactions helped Rubén create his business?

(18:30-16:00)



(5') What typical, delicious Spanish foods DO NOT not require a chemical reaction?

