

## **SCIENCE MODULE TEMPLATE- ITALY**

**Subject:** Science

**TOPIC of the module:** The human races: we are different ... but not too much!



**Age of students:** 12-13

**Number of students:** 4 classes up to 25 students.

**Required prior knowledge:** None

### **Objectives**

Students at the end of the module will be able to:

- Speak about the scientific aspects about races
- Recognize the components of a DNA

### **Opportunities:**

Using drama, modeling, drawing and other forms of art, students will have the opportunities to:

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**Arts involved:** drawing, modeling, sponage, drama

**Resources** : presentations, links to websites, School books, video animation, internet, etc.

**Time frame:** number of lessons: 4-5. Duration of lessons: 60 minutes

# Learning with the Arts

Erasmus+ School Cooperation Project 2017-2019

**Methods for teaching Practice to be used:** Brainstorming, Cooperative learning, Flipped classroom, Role play, Problem solving, peer to peer.

**Interdisciplinary:** Italian, Art, Science, Technology

## Procedure / steps

### 1. The concept of race is not grounded in genetics.

- Science Class

The teacher introduces the topic of the races. There's no scientific basis for Race—It's a Made-Up Label.

An article of the national geographic will help students and teachers to approach better the issue.

[National Geographic](#)

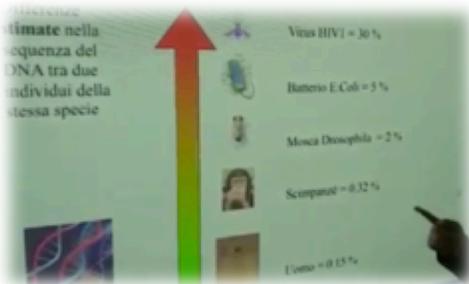
Students will look to other scientific documents about the topic.

[Focus](#)

[You Tube Video](#)

[Rai Scuola Video](#)

*“Everyone has the same collection of genes, but with the exception of identical twins, everyone has slightly different versions of some of them. Studies of this genetic diversity have allowed scientists to reconstruct a kind of family tree of human populations.”...*

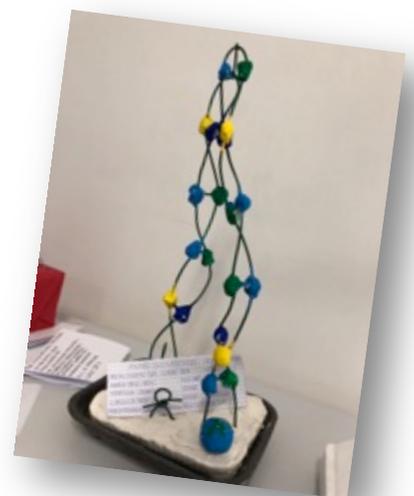


*“Many genes affect how melanin colors human skin. The genes predate humanity; the mutations that flip a gene from darkening to lightening or vice versa—explain much of the skin-color diversity*

*in Africa.”*

Students have read several articles and watched several video about the topic.

Pupils, inspired by readings taken in scientific journals and by watching documentaries, made materials (power point presentation, modeling, sponge or a video) on the scientific demonstration that races do not exist.



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All materials are available in the following link:

[Class III A](#)

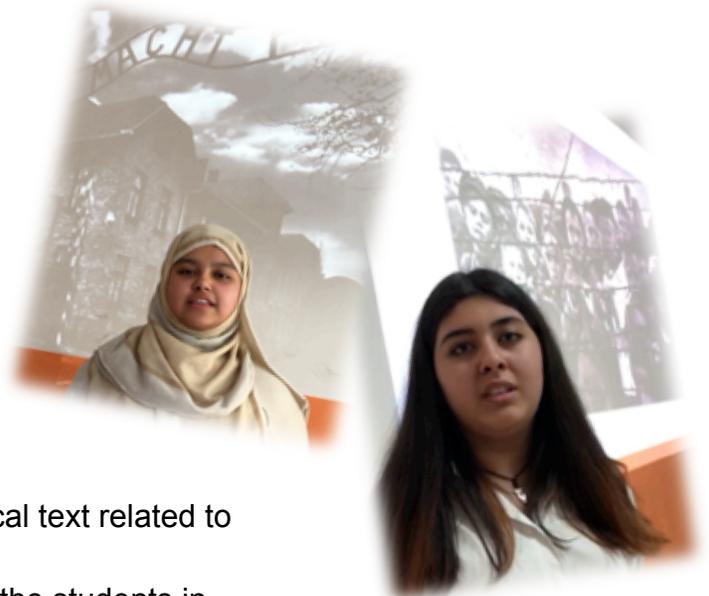
[Class IIID](#)

## **2. Reflection on the subject and the theatrical forms produced**

Once they have acquired the scientific knowledge and skills, the students, guided by teachers of Italian, have worked on a theatrical text related to racism.

The texts, short or longer, were represented by the students in various ways (short film, theater, shadow theater).

Below, it's possible to find the works carried out on the occasion of the Memory Day and Remembrance Day.



[Our Sketches](#)

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## **3. Art Class**

Some students have painted a picture that wants to wish the union between races.



### **Evaluation summary and comments:**

The module involved different disciplines (art, Italian, science, technology) and was very

educational and reflective for the students.

They have had the opportunity to reflect on very current issues and above all to better develop social competences related to European goals.

All, teachers and students, have worked with great intensity transversally, maturing thoughts, reflections very important for the development of the future European citizen.