

Xperimania

FROM MOLECULES TO MATERIALS

Welcome to Xperimania!

Have you ever wondered about the materials around you? Xperimania aims to help European teachers and students to explore the properties of materials, and understand some of the processes involved in creating materials used in every day objects like MP3 players, tennis rackets and sports shoes.

Lower and upper secondary school pupils aged 10-20 years old are invited to participate in a variety of activities and a competition designed to raise pupils' awareness of how petrochemistry contributes to the development of modern materials. Taking part in Xperimania will:

- Help your students to understand the wide variety of materials used in every day life and what goes into them
- Give you an easy way to integrate modern tools into your teaching
- Explain to you and your pupils how the discovery of new materials has contributed to the evolution of many every day objects
- Show the importance of materials and the processes which create them
- Enable your pupils to devise their own experiments related to petrochemistry to explore materials
- Motivate your pupils to explore the world scientifically.



What does the website offer?

Offering attractive pedagogical activities and competitions, Xperimania is an opportunity to explore the topic of materials and set up experiments on its related fields with your class. On the website, you will find suggestions for experiments, teaching materials and resources, news articles and regular online chats with experts.

Who can join in?

All schools in the European Union, candidate countries and EFTA countries are invited to join in. Participating students must be aged 10-20 years old. It is free to participate.

How do I take part?

Visit the website **www.xperimania.net** and find all the background information and resources you need to get started. You can choose to get involved in one or both of these activities:

- **Timeline:**
Explore a scientific discovery in the field of materials from 1800 to the present day. With your students, investigate a discovery and produce a digital resource describing what you have found out about the discovery. Your entry should include a short text and a picture. You can also make a film, audio file, visual resources or text-based document to illustrate your work. Then, using easy tools, upload your work to the website where it will become part of an interactive timeline of discoveries in materials.
- **Competition:**
Set-up an easy and fun experiment in science relating to petrochemistry and materials. We offer you some examples of experiments on the portal but you can also choose your own experimental setup - all experiments need to have properties (chemical or physical) and / or the chemistry of modern products as a focus. You are then invited to upload your lab report together with a video, or photographs on the website. All the submissions of the competition will be displayed in an online gallery and the best entries will be rewarded by a prize.



Xperimania

FROM MOLECULES TO MATERIALS

About us

The Xperimania project is coordinated by European Schoolnet on behalf of Appe.

Appe

www.petrochemistry.net

The Association of Petrochemicals Producers in Europe – Appe – is the voice of the European petrochemical industry and brings together about 70 member companies. Its mission is to foster the development of the European petrochemical industry within a global context, by demonstrating its sustainability and its benefits to society. The European petrochemical industry is a key player in today's society as its applications are essential to most of our daily life products. It also contributes to the development of tomorrow's innovative products. Appe is part of Cefic, the European Chemical Industry Council representing about 29,000 large, medium and small chemical companies which employ about 1.3 million people, and accounting for nearly a third of world chemical production. It is based in Brussels, Belgium.

European Schoolnet

www.europeanschoolnet.org

European Schoolnet is a unique not-for-profit consortium of 28 Ministries of Education in Europe created in 1997. EUN provides major European education portals for teaching, learning and collaboration and leads the way in bringing about change in schooling through the use of new technology. Since its establishment, European Schoolnet (EUN) has been at the forefront in supporting the European dimension in schools. This goal is achieved through projects, competitions, activities, communication and information exchange at all levels of school education using innovative technologies.

To take part, visit the website:

www.xperimania.net

Email: info@xperimania.net

