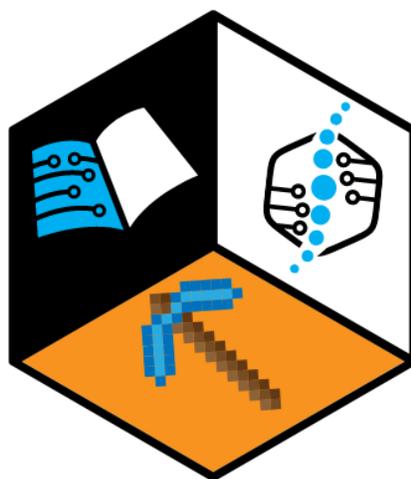


NANOWARE Curriculum

MODULE 3: NANOPARTICLES

ASSESSMENT

DELIVERABLE: R1/T1.1



NANOWARE

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1. Assessment

The following sections aim to support you in the self-reflection process of your knowledge and skills. Answer the questions wisely based on what you have learned. Tips and feedback will be provided to motivate you learn more about the topic!

1.1 Knowledge Assessment

This part includes quiz-like questions for you to reflect on your knowledge!

Take your time to answer the ten (10) following questions!

Quiz-like assessment based on the main content. Please mark the correct answer with bold when required. Include 10 questions for your module. Increase gradually the level of difficulty.

Question 3.1:

Nanoparticles are particles of matter that are between 1 and 100 nanometres (nm) in diameter.

True/ False

Question 3. 2:

Nanoparticles usually contain just a few hundred atoms, and they have very high surface-area-to-volume ratios.

True/ False

Question 3.3:

Nanoparticles can be used as drug-delivery devices.

True/ False



Question 3.4:

Metal nanoparticles don't have antibacterial properties.

True/ **False**

Question 3.5:

Many nanoparticles are effective catalysts because they have such incredibly high surface-area-to-volume ratios.

True/ False

Question 3.6:

Titanium dioxide nanoparticles are being used in sun creams because they are harmful.

True/ **False**

Question 3.7:

Nanoscience is the study of the behaviour of objects at a big scale.

True/ **False**

Question 3.8:

Ceramic nanoparticles are used only in industrial production and are not related to applications in dentistry, orthopaedics, anticancer drug delivery, and tissue engineering.

True/ **False**

Question 3.9:

Biocompatible ceramics, also known as bioceramics, consist of both macro- and nanomaterials.

True/ False



Question 3.10:

Materials that retain permanent magnetization in the absence of an applied field are known as hard magnets.

True/ False

1.2 Skills Assessment

This is the part where your knowledge is being put into action!

Train your brain with the skills you gained through this module and think through a possible answer to the following assignment!

One of the most important skills to improve when it comes to nanoscience concepts is analytical skills, which can help individuals to draw conclusions and solve complex problems from the analysis of all data available.

Assign an exercise that promotes problem-solving and critical thinking related to the actual implementation of your topic in real-life situations.

An exercise or homework project assignment that promotes problem-solving and critical thinking related to what nanoparticles are, how to identify them, and a description of their properties and uses.

Students take on a survey about good practices of nanoparticles and describe some of their specifics.

They may design a questionnaire with several key questions to distribute and collect responses which then analyze and present the results to draw their conclusions.

One of the most important skills is to apply the nanoparticles concept, drawing conclusions and solving complex problems from the analysis of all data available.