

MEDCIS scientific game

Technical Guide and Game play guide

What do you need to play?

Did you get the registration? Did you have a team?

Now it's time to play. Follow the steps and keep in mind that you can earn score during the Phase 1 in order to participate to the European online competition (Phase 2) with a starting score. Good luck!

- **Preparation to the game**
- **Play - Phase 1**
- **Play - Phase 2**

– PREPARATION TO THE GAME

Contents and link about the topic are available on the web platform

- Study in detail the topic: acquire knowledge on the game topic and content (see MARINE STRATEGY FRAMEWORK DIRECTIVE)
- Study in detail the methodology: acquire the methodology of the scientific-thematic research (see SCIENTIFIC METHOD)
- Study in detail the game: understand the game, read the documentation, build a local team and get international links.

– PHASE 1

During this first phase you can carry out a research project in order to participate to the Phase 2 with a starting score. Products will be realized in English.

- CARRY OUT A RESEARCH PROJECT: carry out practical activities in order to get experiences on research projects
- From GENERAL to SPECIFIC: consider the definitions and study the concepts, search for explanations and then study some examples
- STUDY IN DETAIL the TOPIC: define the key words, use it to search for information on web, learn how to select the sources, select material
- ORDER: go to the foundations of the selected topic: what is known, what is still not known, what we still need to know or to understand

- TOWARDS the Understanding: formulate questions you feel relevant to add knowledge and search for answers. Are there questions still not answered
- MAKE your RESEARCH: start your research activities
- MAKE THE SCIENTIFIC HYPOTHESES: scientific hypotheses - null hypothesis - and alternative hypothesis. When do you accept a hypothesis?
- EXPERIMENTAL DESIGN: how collect information? Identify the general information and choose the method
- SAMPLING TECHNIQUES: choose the technique in order to collect information
- DESCRIBE the RESULTS: fix and describe the theoretical concepts
- ANALYSE the RESULTS: perform a general statistical analysis
- COMPARE the RESULTS: compare your products and results with other students in your team
- MAKE THE RESEARCH PRODUCTS: prepare one final product of your research (report/paper or poster or video in English)

- PHASE 2

During this second phase you will compete at European scale with other students. The game will be available in English.

- **ONLINE COMPETITION**: play the competition with students of other countries