


Summer School 2022

NUCLIO

 nuclio.org

The structures of the Universe

*How do the structures of the Universe
contribute to its sustainability?*

Maria Margarida Teixeira de Sousa

PORTUGAL



How do the structures of the Universe contribute to its sustainability?

Cognitive Objectives Develop:

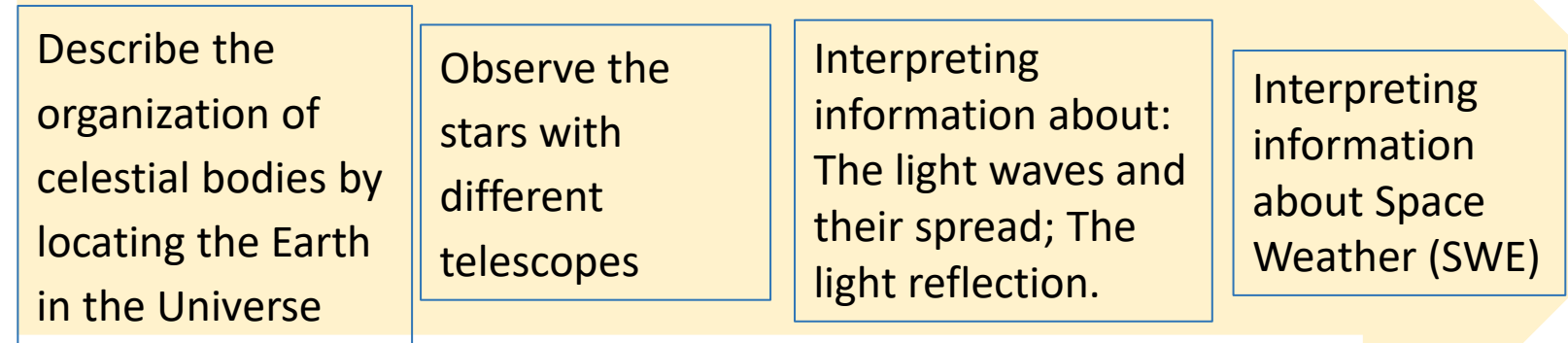
1. literacy scientific about Astronomy; 2. reasoning and the ability to solve problems; 3. communication, for share the results.

Affective Objectives: Stimulate autonomy and personal and team development; Contribute to the student's ability to develop interpersonal relationships.

Psychomotor Objectives: Awareness and mastery of the body

Title: The structures of the Universe
Short description: An awareness about the Astronomy in scientific, technological and social meaning of human intervention.
Keywords: Astronomy; Telescopes; STEAM Learning; Creating open educational material.
Students: 12-15 years old: Middle school
Prerequisites: No expertise needed in Space Situation, just exercise a participatory citizenship.

Explore *Stellarium* software and *Salsa J* software and Portal LCO



STEAM Learning:

The student organizes his work by setting goals

Preliminary Explanations
Plan Investigation

The student is aware of the procedures used and their difficulties

Perform Investigation
Analysis and interpretation

The student takes note of his productions for the task

Conclude and communicate result/explanation
Evaluation/Reflection
Consider other explanations