

Life below water

1 Overall aims:

Cognitive (C)

- To introduce the children to the need:
 - to take care of the planet
 - to take care of animals
 - to protect marine species
- To convey to children the importance of marine/aquatic ecosystems for life on Earth

Affective (A)

- To respect other living beings
- To be responsible

Psychomotor (P)

- To develop fine motor skills: cutting, molding, building, painting...

2 Vocabulary - keywords

Science: marine animals, algae, aquatic life

Sustainability: marine food, ocean resources

Art: trim, mold, paint, build

3 Sustainable abilities developed

- Problem solving
- Critical thinking

4 Pillars of sustainability included

Environmental:

- Use of different materials such as recycled cardboard or paper and other natural ones to build an aquarium
- Know and respect marine life

Social:

- Discover the importance of the sea as a place for leisure, sports and the promotion of healthy habits

Economic:

- Understand that many people live from the sea, fishermen, shellfish collectors, seaweed collectors...



5 STEAM domains (of the whole learning path)

Mathematics skills (recognize volumes and geometric shapes)

Science skills (discover the living beings that occupy the oceans and seas)

Artistic skills (mold, cut, paste, different materials to build an aquarium)

6 Teaching methodologies/activity outline

1. Watch the two videos about building an aquarium and select one of them.
The teacher shows video files (15 minutes). All the group.
2. Try to reproduce the selected aquarium.
The teacher and the support teacher help the children to reproduce the aquarium in three sessions of 45' in small groups (3-4 children)

7 Expected learning outcomes

The child will be able to:

- recognize different kind of sea animals
- relate animals with their ecosystem
- build an aquarium with algae, fish, and other marine animals
- recognize the importance of protecting and caring for life in the oceans

8 Assessment

(C)

- ✓ Does he/she know different marine animals? Does she/he know what they feed on?
- ✓ Does she/he understand the relationships between them?
- ✓ Does she/he know why they are important to man?

(A)

- ✓ Does he/she know that it is important to respect animals and marine life?

(P)

- ✓ Can he/she explain how to build an aquarium?
- ✓ Does he/she recognize recycled materials and how to use them to build an aquarium?

9 Equipment and materials to be used in learning unit (tools, ingredients etc.)

1. Digital whiteboard
2. Materials:
 - **Cardboard aquarium:**



cardboard, wool, water paints, eyes for crafts, scissors, colored pencils, brushes, glass of water

- **Wood and mud aquarium:**

wooden box, paints for wood, clay, brushes, paint for clay, markers, large toothpicks

10 Kind of setting - lab, kitchen, outdoor etc.

1. Classroom
2. Drawing classroom

11 References - source:

a) Cardboard

<https://www.youtube.com/watch?v=odUfPn0NTOA>

b) Wood and mud

<https://www.youtube.com/watch?v=xBD-tykdw6g>

