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Nature journalism and wetlands: how nature journals can contribute to a better understanding of wetlands' ecological value

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Where we started: the MUSE pond

Opening year: 2022 o Surface area: 2000 m²

 Num. of aquatic and wetland plant species: approx. 80 species

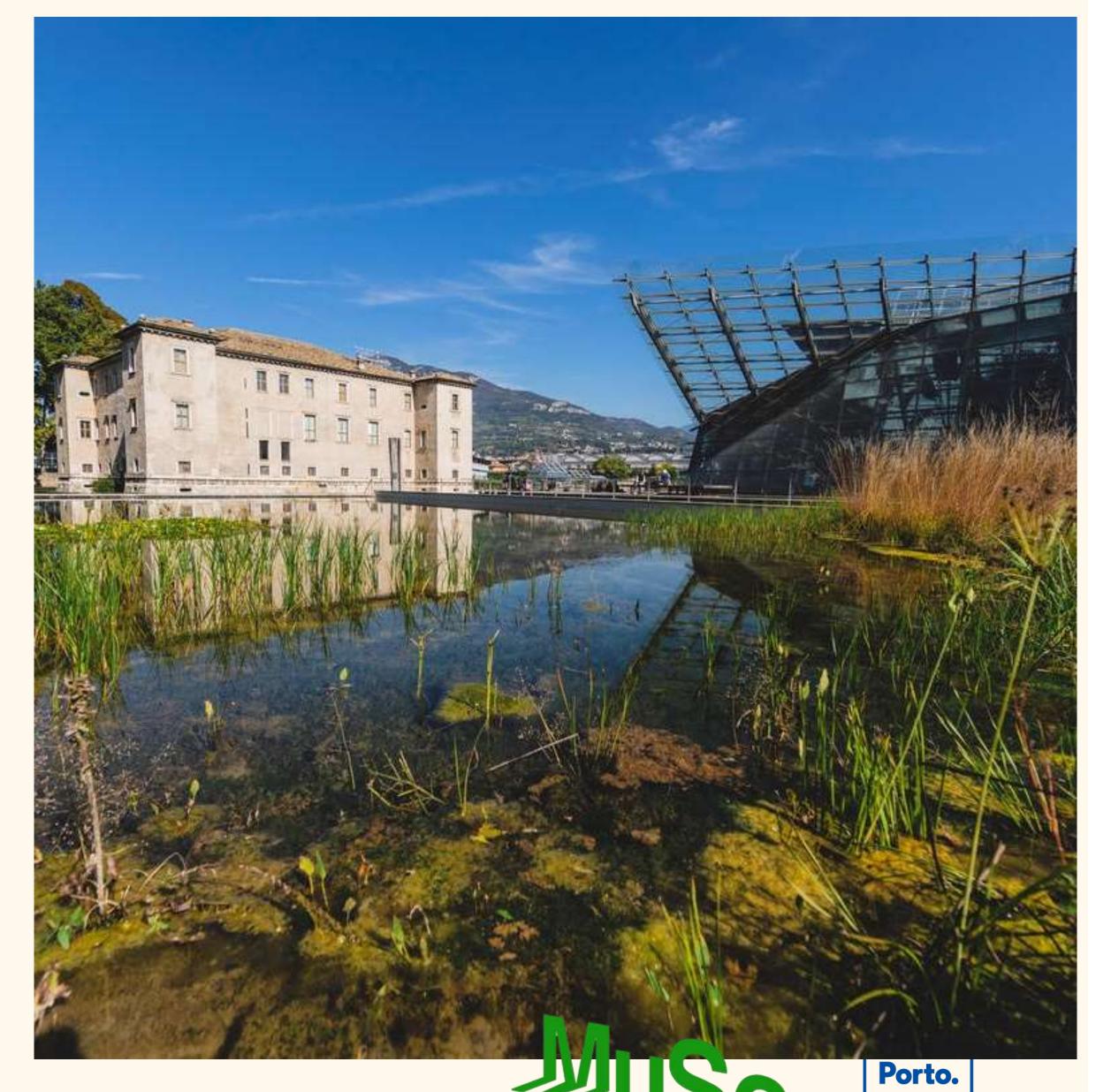
o Individuals planted: more than 4000

 Number of habitats made according to the Natura **2000 classification:** 7 (cod. 3130, cod. 3150, cod. 3230, cod. 6410, cod. 6430, cod. 7210, cod. 91E0)

 Animals: no introductions, but spontaneously appeared: amphibians (Bufoetes viridis), insects (dragonflies -Crocothemis erythraea, Coenagrion hastulatum, Gerridae, Dytiscus sp., lepidopterans – Vanessa cardui, Vanessa atalanta), birds (Anas platyrhynchos, Ardea cinerea, Gallinula chloropus, Passer x italiae, Carduelis carduelis, etc.), mammals ...









Our goals:

- o To tell the naturalistic value of the biotope through the practice of mindful exploration;
- o Invite a **slow** and **curious approach** to valley bottom wetlands;
- To realize a versatile tool adaptable to multiple contexts;
- Stimulate creativity, self-awareness and multi-sensory approach.







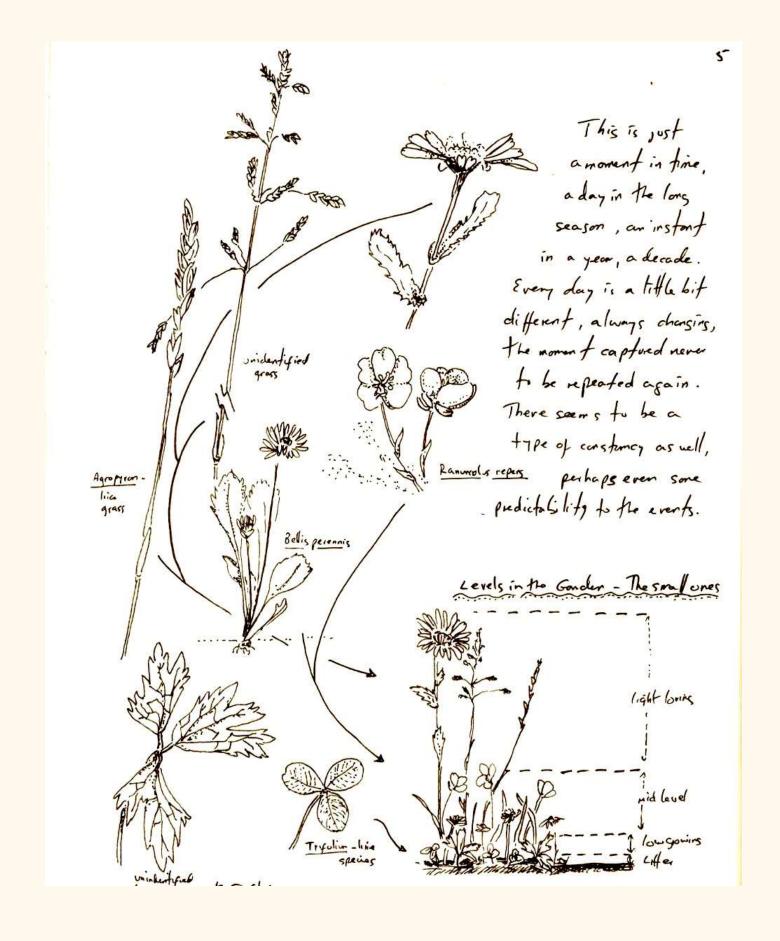




What is nature journaling?

Nature journaling is **regularly recording** your **observations**, **feelings**, **and perceptions** of the **natural world around you**.

For centuries, nature journals have accompanied scholars, researchers, poets, writers, geographers, historians and philosophers in their explorations of the environment and the world. A tool that has retained its appeal and its pedagogical, educational and formative power despite the passage of time.











Why did we come up with a nature journal to enhance a wetland?

- O Today, as then, it is a valuable tool for exploring the environment and recording observations;
- To encourage curiosity and creativity;



- It is suitable for different audiences: families, students, artists, scientists, individuals, groups and anyone who is curious or passionate about the practice of nature journalism;
- It is a tool that facilitate interaction with the natural environment, all forms of life, observation, listening, knowledge and feelings of fascination, belonging and biophilia.







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«Diario di natura -to observe and discover MUSE Biotope and valley bottom wetlands"

"Diario di Natura" is a **booklet** inspired by the practice of **nature journaling**, offering **various activities** aimed at exploring wetlands in a conscious way.

It was designed by a team of MUSE science communicators in collaboration with two nature illustrators, a graphic designer and a print shop.











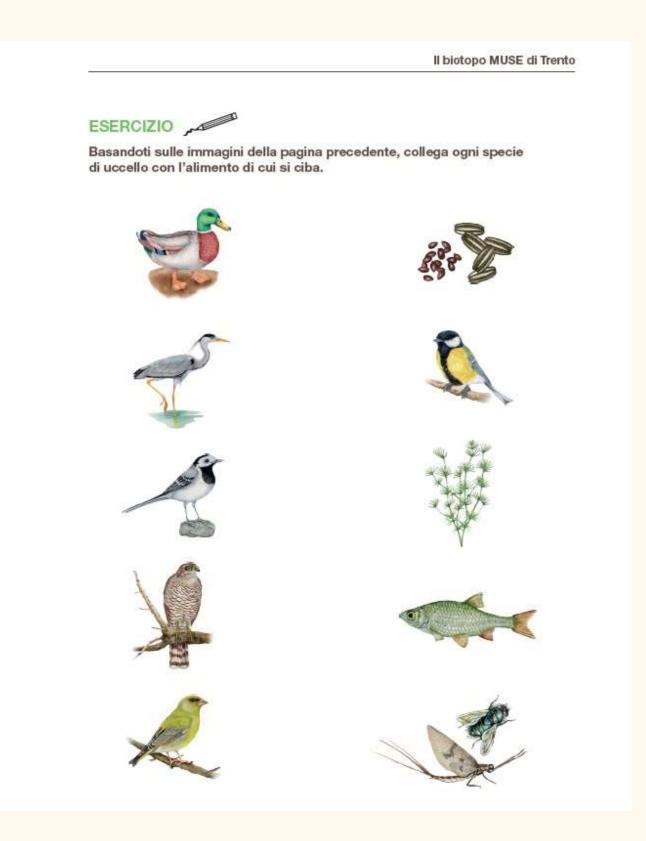
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«Diario di natura»













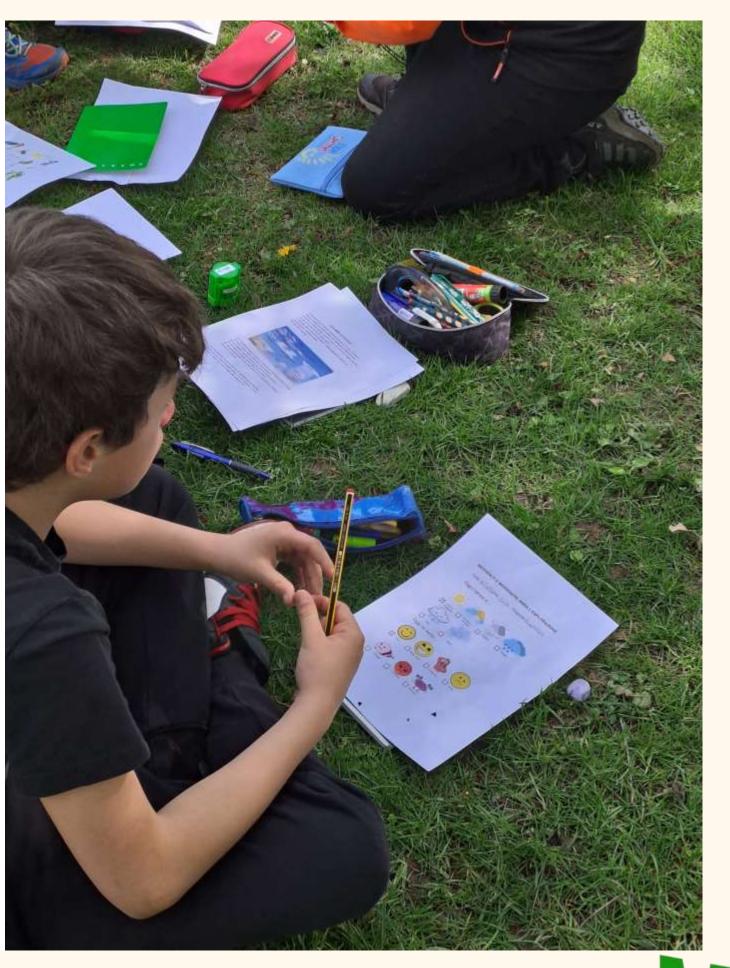






Format: examples What's the weather today? How do I feel today?







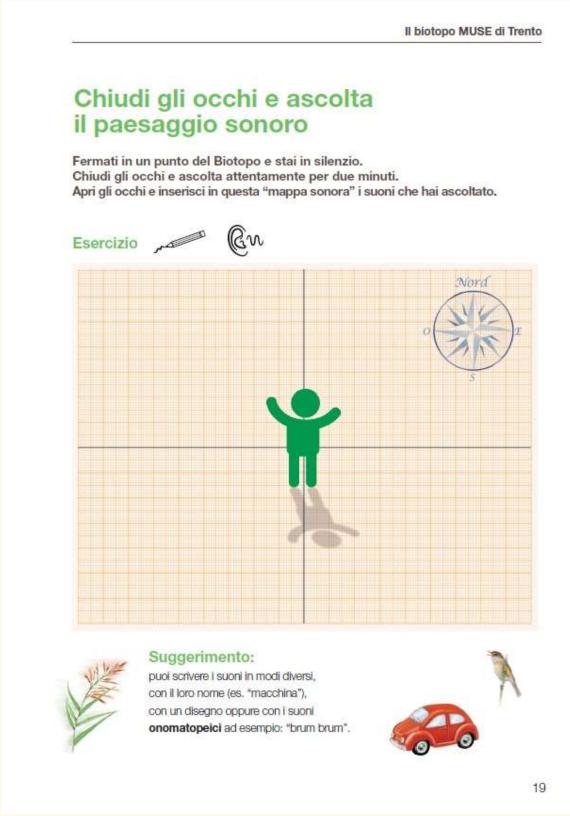








Format: examples Listen to the soundscape















Format: examples Shadow Tracing



Shadow Tracing: traccia l'ombra

Il biotopo MUSE di Trento

Esercizio ,

È una giornata soleggiata? Se sì, scegli un elemento vegetale del Biotopo; posiziona questa pagina sotto o a fianco ad esso finché non vedi la sua ombra proiettata sul foglio. Tenendo la pagina più ferma possibile, ricalca il bordo dell'ombra e poi colora.







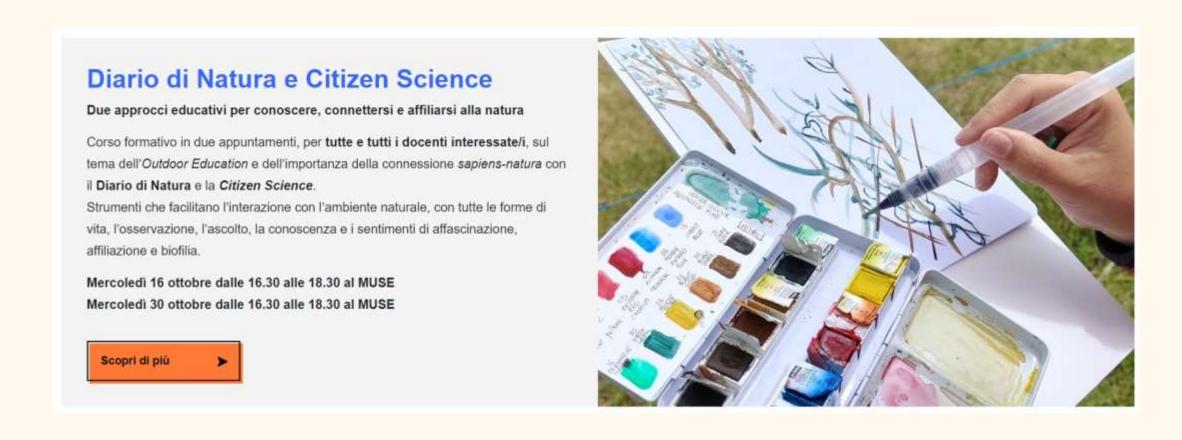






Audience:

- Pupils aged 8 13 years: two-hour workshops using a variety of materials, including microscopes and lab equipment to observe live plankton samples, in addition to some nature journal activities;
- o **School groups** who wish to discover the MUSE Biotope and the wetlands on the valley floor independently;
- o **Families:** the "Diario di Natura" will soon be available in our store and can be used freely in the Muse biotope as well as in other wetlands on the valley floor;
- Teachers: two training sessions for all interested teachers on Outdoor Education and the importance of connections between humans and nature;











Accessibility:

Nature journaling can value the uniqueness of each of us: it allows people to choose the activities that best suit their characteristics and enables information to be reported in the way that is most appropriate for each of us.











Evaluation:

The project is in its final phase and the "Diario di Natura" is currently being printed. Last school year, we tried out the activities with around ten classes of both primary and secondary school and asked for feedback to both pupils and teachers at the end of the activity, which was always positive.

We are starting this year:

- Evaluation by **teachers** using a questionnaire given via a QR code at the end of the activity;
- Evaluation of the structure of the activity by educators who carry it out in the classes;







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Could Nature Journals be applied or transferred to another context?

"Diario di Natura" itself could be used in all wetlands in the valley floor of our region within a certain altitude, as the species found there are about the same as in the MUSE biotope.

The format could be reused for each habitat type and geographical context.









Staff:

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