

高雄市 106 年度海洋教育教案甄選
作品教學設計教案

參賽組別：_____國中組_____

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| 學校名稱 | 高雄市立七賢國中(鼓山區) | | |
| 設計者 | 黃啟賓、王臻尹 | | |
| 適用年級 | 九年級 | 教學總節數 | 2 |
| 主題名稱 | Jhongdu Wetlands Park | | |
| 符合本市海洋教育推動架構面向 | <input type="checkbox"/> 海洋社會 <input type="checkbox"/> 海洋科學 <input type="checkbox"/> 海洋文化 <input checked="" type="checkbox"/> 海洋資源 | | |
| 設計理念 | <p>以中都濕地為發想，希望可以讓學生不僅認識中都濕地的歷史演變，更能訓練自己的表達能力，促進合作學習。</p> | | |
| 12年國教核心素養 | <p>藝術涵養與美感素養、人際關係與團隊合作、符號運用與溝通表達、身心素質與自我精進</p> | | |
| 能力指標 | <p>1-2-5 瞭解家鄉或鄰近沿海或河岸景觀的特色。 3-2-1 認識家鄉或鄰近的水域環境變遷 3-2-2 說明家鄉或鄰近的水域環境變遷對生活的影響 5-2-3 認識水中生物及其外型特徵 5-2-4 說明水中生物的運動方式 5-2-6 關懷河川、海洋、生物與環境</p> | | |
| 教學目標 | <ol style="list-style-type: none"> 1. To interpret the related information of Jhongdu Wetlands Park. 2. To understand the mangrove forest ecology of our own country. 3. To recognize and admire the values of wetlands park. 4. To cultivate the state of mind to love our home country. 5. To be able to focus on the importance of ocean education. 6. To comprehend the difficulty of conserving the natural species. | | |

| 指導方法 (可複選) | <input checked="" type="checkbox"/> 觀察與體驗 <input type="checkbox"/> 比對與測量 <input checked="" type="checkbox"/> 欣賞與鑑賞 <input checked="" type="checkbox"/> 訪問與調查 <input type="checkbox"/> 實驗與製作 <input checked="" type="checkbox"/> 表演活動 <input checked="" type="checkbox"/> 講述 <input checked="" type="checkbox"/> 參觀 <input checked="" type="checkbox"/> 分組討論 | |
|--|---|--|
| 教學流程 | 時間 | 教學資源 |
| <p>1. Warm up Greet the class and ask them if they have been to the Jhongdou Wetlands Park.</p> <p>2. Introduction (pre-reading) Introduce the basic information about Jhongdou Wetlands Park by showing the video.</p> <p>3. Hand out the attachment 1, which is an article about the basic information of Jhongdou Wetlands Park. Check the attachment 1 and tell students the history and how to explain them in English.</p> <p>4. Hand out the basic rules of presenting the Jhongdou Wetlands Park presentation. Give students the learning sheet and help them to understand their assigned work.</p> <p>5. Conclusion and presentation. Let students express their thoughts about Jhongsou Wetlands Park and explore deeper information of the special natural species and the Mangrove Wetlands Recovery Zone.</p> | <p>8m</p> <p>15m</p> <p>10m</p> <p>11m</p> <p>45m</p> | <p>Oral communicating</p> <p>Internet, Notebook, and Projector</p> <p>Attachment 1</p> <p>Attachment 2</p> <p>Attachment 3</p> |

Jhongdu Wetlands Park 中都濕地公園

Name: _____

Jhongdu Wetlands Park, which covers 11.6 hectares of land, used to be one of the biggest wood-storage pools in Kaohsiung. In recent years, Kaohsiung City Government has been putting more and more effort into environmentally friendly urban-planning, and Jhongdu was transformed from a 40-year-old wasteland into a fresh looking park that raises native animals and plants, provides recreational space for residents, and serves an educational purpose.

Founded on the principle of "returning to nature, respecting nature, Jhongdu Wetlands Park strives for a **balance** between nature and human activities. The park is surrounded by bike roads and walkways, but the Eco Island in the center is reserved for wild birds, as well as an area for coastal forest. The Eco Island is connected to the outside by three bridges in order to minimize human impact. The bridges themselves are made with wood and other natural materials.



The waterway surrounding the Eco Island is lined with stones rather than cement blocks, purposely copying the natural environment. The effort has been a successful one: Mangroves now grow in the restoration zone, including kinds thought to be extinct in this region. Kaohsiung Wild Bird Society has reported sightings of more than 30 different birds on Eco Island. Visitors to the park enjoy the green trees, watching fish in the water, and –on a good day –water birds dancing in the sky. The park is a piece of heaven, right in the heart of Kaohsiung City.

📖 hectare 公頃；storage 儲存；Government 政府；effort 努力；

environment 環境；transform 轉變；wasteland 荒地；native 本土的；recreational 娛樂的；resident 居民；serve 供應；educational 教育的；found 以...為基礎；principle 原則；strive 努力 surround 圍繞；eco-生態的；reserve 保留；coastal 海濱的；minimize 使減到最少；impact 衝擊 cement 水泥；mangrove 紅樹林；restoration zone 保留區；include 包括；extinct 絕種的；heaven 天堂

After reading the article, please answer the following question:

1. What are the values(價值) of Jhongdu Wetlands Park?

2. What are the activities that the visitors of Jhongdu Wetlands Park can do?

附件二 (worksheet)

Group1

Mangrove Wetlands

Recovery Zone

紅樹林溼地復育區



1. Introduce the main function of Mangrove ecology. 介紹紅樹林復育區對環境的功能
2. Introduce the special creatures(生物) in the Mangrove Wetlands Recovery Zone. 介紹出沒在紅樹林復育區的生物
3. What are the activities that we can do in Mangrove Wetlands Recovery Zone? 可以在紅樹林復育區進行的活動

Group2

Waterfront Scenic Zone

水岸景觀區



1. Introduce the materials that use to build Waterfront Scenic Zone. 介紹建造水岸景觀區的特殊建材
2. Introduce the special creatures(生物) in the Waterfront Scenic Zone. 介紹出沒在水岸景觀區的生物
3. What are the activities that we can do in Waterfront Scenic Zone? 可以在所有水岸景觀區進行的活動

Group3

Ecological Islet of

Taiwan's Endemic Forests

台灣原生林生態島



1. Introduce the function of the Ecological Islet of Taiwan's Endemic Forests. 介紹原生林生態島的功能
2. Introduce the special sites of Taiwan's Endemic Forests. 介紹在原生林生態島的特殊景觀
3. Introduce the natural plants that in the Ecological Islet of Taiwan's Endemic Forests. 介紹在原生林生態島會出現的植物

Group4

The Education Function of Jhongdu Wetlands Park

中都濕地公園的教育功能



1. Introduce the main educational purpose of the Jhongdu Wetlands Park. 介紹中都濕地公園的主要教育功能
2. Introduce the educational activities that combined with natural resources of Jhongdu Wetlands Park. 介紹中都濕地公園的教育活動
3. Introduce the multi-purpose of Jhongdu Wetlands Park. 介紹中都濕地的多功能

附件三 (After reading-the presentation work of each group)

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| <p>Group1</p> <p>Mangrove Wetlands Recovery Zone</p> <p>紅樹林溼地復育區</p> <ol style="list-style-type: none"> 1. Take picture:_____、_____. 2. Find data: <ol style="list-style-type: none"> a. Functions of Mangrove ecology: _____. b. Special creatures(生物) in the Mangrove Wetlands Recovery Zone:_____. c. The activities visitors can do in the Mangrove Wetlands Recovery Zone:_____ 3. Presenter:_____ | <p>Group2</p> <p>Waterfront Scenic Zone</p> <p>水岸景觀區</p> <ol style="list-style-type: none"> 1. Take picture:_____、_____. 2. Find data: <ol style="list-style-type: none"> a. The materials that use to build Waterfront Scenic Zone: _____. b. The special creatures(生物) in the Waterfront Scenic Zone: _____. c. The activities visitors can do in the Waterfront Scenic Zone: _____. 3. Presenter: _____ |
| <p>Group3</p> <p>Ecological Islet of Taiwan’s Endemic Forests</p> <p>台灣原生林生態島</p> <ol style="list-style-type: none"> 1. Take picture:_____、_____. 2. Find data: <ol style="list-style-type: none"> a. Functions of Ecological Islet of Taiwan’s Endemic Forests: _____. b. The special sites of Taiwan’s Endemic Forests: _____. c. The natural plants that in the Ecological Islet of Taiwan’s Endemic Forests: _____. 3. Presenter:_____ | <p>Group4</p> <p>The Education Function of Jhongdu Wetlands Park</p> <p>中都濕地公園的教育功能</p> <ol style="list-style-type: none"> 1. Take picture:_____、_____. 2. Find data: <ol style="list-style-type: none"> a. The main educational purpose of Jhongdu Wetlands Park: _____. b. The educational activities that visitors can do in Jhongdu Wetlands Park: _____. c. The multi-purpose of Jhongdu Wetlands Park:_____ 3. Presenter:_____ |