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| ACTIVITY PLAN | | |
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| **Theme** | **Subtopic** | **Activity Title** |
| Collaboration and Communication in EcoSTEAM Projects | Teamwork and Leadership in Environmental Initiatives | Candle Making from Wax Leftovers. |

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| Introduction part (or activity overview) |
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| **Introduction part (or activity overview)** | Students will collect wax remnants, old candle containers, and look for information on how to make a candle from wax leftovers; they will learn the basic steps of candle making; they will become acquainted with the main principles of economic activity that can be applied in this activity.  The activity will encourage students to conserve the environment. By recycling wax remnants into candles, they will reduce waste and promote environmental awareness. |
| **SETTING** | A classroom equipped with a hot plate.  Educational context: teamwork and learning. |

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| Materials Needed |
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| **Materials Needed** | Wax scraps, wick, wick holder (may be from an old candle), candle jars (may be left over from old candles), container (for melting the wax), scissors, bowl (for heating the water and placing the container of melted wax into), wooden sticks (for holding the wick in place), hotplate, computer (tablet or phone), paper, pens. |

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| **Learning Outcomes** | - Collaborate with others to achieve a common goal - create candles. This encourages communication, leadership, and teamwork.  - Learn to collect and prepare materials for candle making; calculate production costs; understand how to set the price of a candle based on production costs; understand what profit is.  - Prepare a description of candle making, make conclusions. |  |
| **Activity Contents** | **Activity 1: Introduction to Economic Activity.** Preparation for the candle-making process.  **Theoretical part (Duration: 15 minutes):** Discussion on what production means and how it is related to the economy, how reducing waste can conserve resources. Production is:   * the use of production resources (labor, capital, natural resources, etc.) to create goods and services. (https://zodynas.vz.lt/Production). * the process of creating goods and services. Production activity is a sequence of technologies through which other objects are obtained from some objects. In production activity, it is necessary to distinguish work tools, work objects (they constitute the means of production), labor force, work products (results of production activity), and technical-organizational relations linking these elements into a production system. (https://e-terminai.lt/economics/production).   Students are introduced to economic concepts such as:   * production costs (The monetary sum of resources consumed for the production of goods), * price (The monetary valuation of a unit of a product. It is the sum of money paid for a product or service that consumers exchange for the right to own or use the product or to use the service), * profit (The difference between revenues received and costs incurred). (https://e-terminai.lt/economics/costs)   Students will apply this knowledge to evaluate how much their produced candle costs, how it can be sold, and how this relates to economic concepts.  **Task 1 (Duration: 10 minutes):** students are divided into groups of 4-5; they distribute and plan the work among themselves.  **Task 2 (Duration: 20 minutes):** Students discuss/find out how to collect wax remnants and other materials, and how to prepare them for production; they look online for information on how to make candles; what tools and materials will be needed for candle making.  **Videos:**  DIY: How to Make a Candle from Candle Leftovers  <https://www.youtube.com/watch?v=9qrVVwmRSpY>  Overview: Video showing how I make new candles from old candle leftovers.  Duration: Approx. 4:19 minutes  How to Melt Old Candle Wax into New Candles to REUSE Candle Wax!  <https://www.youtube.com/watch?v=cUYYDZ4LFEs>  Overview: This video will show our process for melting all the wax out of old candle jars, how to make a guide for your candle wick placement, and how to pour the wax into your new reused jar.  Duration: Approx. 5:28 minutes  **Task 3 (Duration: several days):** Collection of wax and other materials (Can be a homework assignment).  Students collect wax remnants (from their homes, acquaintances, the gymnasium community). For example, prepare announcements asking the gymnasium or local community to bring in wax remnants.  **Activity 2: Candle Making from Wax Leftovers, Economic Concepts in Candle Production.**  **Task 1 (Duration: 2 hours):** Candle Making.  Step 1: Each group selects their candle design, makes candles, decorates them (1.5 hours)  Step 2: Students calculate the cost of candle production. (15 min.)  Step 3: Set the selling price of the candle. (5 min.)  Step 4: Compare the cost price of the produced candle with the prices of candles sold in their living environment. (10 min.)  **Video:**  How to Set the Price of a Product or Service?  <https://www.youtube.com/watch?v=XnL9xN_8UrA>  Overview: this video is about what goes into the price of a product.  Duration: Approx. 2:51 minutes  **Task 2 (Duration: 30 minutes):** Final Work. Reflection.  Students prepare a description of candle making, present conclusions on how economic principles were applied in the candle-making process, how this activity contributes to environmental conservation. |  |
| **Assessments** | The final result is assessed with a grade. (Evaluation Table No.1)  All students in the class can be included in the evaluation.  Each student self-assesses their contribution to the work.  Students can compete for the best-made candles by voting online and through questionnaires.  The evaluation considers: the produced candle (its design, decoration), the description, the calculation of the cost price, and the conclusions. |  |
| **Key Competences** | Communication competence  Cognitive competence  Creativity competence  Digital competence |  |
| **Connections with Eco STEAM** | **Eco** – choosing environmentally friendly materials for candle making.  Sience – knowledge of chemistry for candle making; environmental sciences – encouraging sustainability thinking.  Technology – using a computer in the creation process.  Engineering – efficient methods for recycling wax remnants and optimizing the production process.  Art – producing visually appealing candles.  Math – calculating the cost and price of candle production. |  |
| **References** | <https://zodynas.vz.lt/Gamyba>  <https://e-terminai.lt/ekonomika/gamyba>  <https://e-terminai.lt/ekonomika/kastai>  <https://www.youtube.com/watch?v=9qrVVwmRSpY>  <https://www.youtube.com/watch?v=cUYYDZ4LFEs>  <https://www.youtube.com/watch?v=XnL9xN_8UrA> |  |
| **Notes** | The activity spans at least two sessions: during the first session, Activities 1 and 2 are completed; Activity 3 may take some time (for example, a week or a month) and is conducted as homework; during the next session, Activities 4 and 5 are carried out.  Wax remnants and other materials can be collected before the session. |  |
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Evaluation Table No. 1.

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| Evaluation Criteria | Points | Comments |
| Candle design, decoration | \_\_/2 |  |
| Calculation of cost price | \_\_/2 |  |
| Conclusions | \_\_/2 |  |
| Description |  |  |