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LESSON PLAN
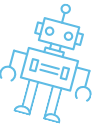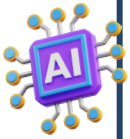
TITLE:

GRADE LEVEL:

STEAM AREAS:

MATERIALS NEEDED:
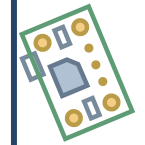
OBJECTIVES:

PROCEDURE

PROCEDURE

ASSESSMENT

REFERENCES

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Brief Instructions:

- **Titles** should be clear, concise, and accurate. They should reflect the lesson's content and pique students' interest.

- **Grade levels** should be selected based on the intended audience for the lesson. For example, a lesson plan on the solar system for 3rd graders would be labeled as **"3rd Grade"** in the grade level field.

- **STEAM Areas** should be selected based on the content of the lesson. For example, a lesson plan could involve any of the STEAM areas of **science, technology, engineering, art, and mathematics**.

- List all of the **Materials** that are **Needed** for the lesson. For example, a lesson plan on 3D printing the solar system might require the following materials: **3D printer, filament, computer with 3D printing software, whiteboard or projector, markers or pens, paper, textbooks or other resources, models of planets or other objects in space.**

- **Objectives** should be specific, measurable, achievable, relevant, and time-bound. For example, an objective for a robotics lesson might be: **Learners will be able to program a robot to follow a line.**

- The **Procedure** should be a step-by-step guide for learners to follow. For example, here is a procedure for a lesson on using Arduino to create a simple robot:
    - **Gather the necessary materials, including an Arduino board, a breadboard, LEDs, resistors, and jumper wires.**
    - **Connect the Arduino board to the breadboard.**
    - **Connect the LEDs and resistors to the breadboard.**
    - **Write a program for the Arduino board that will control the LEDs.**
    - **Upload the program to the Arduino board.**
    - **Test the robot to make sure it works.**
        - By providing a much more detailed step-by-step guide, educators can ensure that learners are able to complete the lesson successfully.

- **Assessment** should be aligned with the objectives of the lesson. For example, an assessment for an Art and STEAM lesson on creating a self-portrait using a variety of materials might be: **students will create a self-portrait using a variety of materials. Their self-portraits will be assessed on their creativity, originality, and technical skill.** By aligning assessment with the objectives of the lesson, educators can ensure that they are measuring what students have learned.

- **References** should include any resources that were used to create the lesson. For example, a reference for a woodwork lesson on making a birdhouse might be:
    - **Birdhouses: A Beginner's Guide by John Smith**
    - **Woodworking for Beginners by Jane Doe**
    - **The Complete Woodworker by Bob Vila**
    - **Woodworking Made Easy by The Editors of Popular Mechanics**