

Lesson Outline (1 Hour) - Cardboard Pinball Machine - Year 8

Materials Needed:

Cardboard box
Stanley knife
Rulers and coloured pencils
Hot Glue
Masking tape
A3 paper for design sketches

Preparation

- Plug in the hot glue gun to heat up, ensuring safety procedures are in place for using hot glue.
- Arrange workstations with cardboard materials, glue, and cutting tools. Prepare a designated space for sketching and design work.

1. Review Last Lesson: Briefly discuss the progress made last lesson, highlighting any key steps (e.g., box cutting and glueing).

Today's Goals: Explain that the focus today will be:

- Finishing the cardboard box construction (cutting and glueing).
- Completing initial design sketches and starting a high-quality A3 final design.

Collaboration Reminder: Encourage students who finish early to assist classmates with cutting, taping, and glueing.

2. Students were away last lesson:

- Come over for a brief and small sized explanation of the task from last season.
(finished students can assist with students)

3. Cardboard Construction & Peer Assistance

- **Task Instructions:** Guide students to finish cutting and glueing their cardboard boxes. Ensure they are following safety guidelines when using the Stanley knife and hot glue gun.
- **Peer Assistance:** Once a student completes their box, ask them to help others who may need assistance.

4. Transition to Design Phase (Move to different room)

- **Clean up workshop before moving rooms**
- **Set Up for Design Work:** After completing the box construction, instruct students to move to another room designated for design work (if available) or prepare workstations with A3 paper for sketching.
- Show initial/final design up to a proficient standard before moving on to using the A3 design which must be up to the students best possible quality

5. Conclusion/Wrap up

- Collect Initial designs and A3 design paper with there names to hold on to and return to students in the next lesson

Feedback:

- Good clear intention
- Just ensure when giving information, that all students are listening (avoid unnecessary instructions)
- Content knowledge is still developing
- Try to avoid having kids doing nothing (can be hard to manage, but you'll understand when it goes wrong)
- General class management is good
- Constant monitoring and etiquette is good (take an interest in their work and the students will appreciate it)
- Wrap up - give some thought to collecting work to distribute in a future lesson