

Year 8 maze game SOW 2022 onwards

Lesson	Lesson content/Activity	Differentiation	Resources	Homework
1&2 PVA (1.009) Acrylic paint (4.012) Hand tools (1.073) disc sander (1.083) Vacuum forming (1.055, 1.062) pillar drill (1.039)	Starter/ bell activity: Name onto booklet and set personal targets Main Intro project – brief Set HW one (ASSESSED REACT piece) Students answer target market questions. Answer is modelled showing paragraph instead of single word response. Existing versions of the game are demonstrated. Photos are provided and a star / radar chart is completed to compare the products. New vocabulary is introduced such such as innovation. Focussed Practical Task Demo how to mark out walls for maze. Peer assess accuracy of marking out. Demo bench hook / tenon saw Demo disc sanding / gluing. Tidy up Plenary: Choose three keywords we have used this lesson. Write a definition for each and then give an example.	Booklet has scaffolding and checklists to guide learners. Support material Key words on the walls. Key words included in the booklets. Support and tips for marking out. Double check their work prior to cutting. Extension material Use of levels ladder to make clear the criteria for high standard of work. Open ended tasks in the booklet.	Powerpoint MDF strips and squares PVA glue Booklets Bench hook Tenon saw Steel rules Glass paper Disc sander Exemplar work. Pictures of games for analysis. Pencils and rulers.	Product analysis of hand held games ASSESSED REACT
3&4 PVA (1.009)	Bell activity: Get homework ready to hand in (name on, date, class etc). Starter: Wordsearch in booklet	Booklet has scaffolding and checklists to guide learners.	Powerpoint MDF strips and squares PVA glue Booklets	DUE product analysis REACT piece

CLEAPSS Hand tools (1.073)	Main Remind re the brief and what is a specification? Students complete the specification page. Explain initial designs for the game. Students complete three initial designs including false routes. They then get one of them peer and self assessed. The draw a development in the last box based on the feedback. Finish cutting out walls and get all glued down today. Plenary: How might today's lesson connect to other areas of the curriculum?	Support material Powerpoint, keywords on walls, exemplars. Extension material Complexity of game design, quality of finish on practical work. Revise and re-enforce safe use of the disc sander if used.	Bench hook Tenon saw Steel rules Glass paper Disc sander	
5&6 PVA (1.009) Acrylic paint (4.012) CLEAPSS Hand tools (1.073)	Bell activity / starter: REACT: read through feedback in silence. Main: Students complete REACT response and Improve their work. Students adapt their design and draw it onto 5mm squared paper, leaving a 5mm gap between walls for the ball to fit round the route. Demo how to cut and shape the wire and glue it down. Plenary: What criteria would you use to judge whether someone has fully understood the lesson today?	Support material Powerpoint, exemplars Extension material Adding extra "false routes" to their maze.	Powerpoint 5mm squared paper Aluminium wire, pliers, wire cutters. PVA glue Booklets	N/A
7&8 PVA (1.009)	Bell activity: Read the feedback for the REACT task.	Support material powerpoint, exemplars, help	Powerpoint Aluminium wire Pliers and wire	Practical interim ASSESSED REACT

Acrylic paint (4.012) CLEAPSS Hand tools (1.073) disc sander (1.083) Vacuum forming (1.055, 1.062) pillar drill (1.039)	Starter: Make improvements to work based on the feedback given. Main: Students finish cutting out their sides and gluing them on if this is not done. They will disc or hand sand the sides to ensure they're square. They will glue them onto the base using PVA glue. Students finish cutting and shaping their wire. Ensure students are using tools and equipment accurately by demonstrating and showing best practice. Plenary: Explain to the person next to you one problem you encountered today and how you overcame it? If you did not have any problems, what did you do to ensure your product was as accurate as possible?	sheets Extension material Designing and making the design to go under the maze. Complexity of maze, ensure accuracy and high standards.	cutters Pva glue Disc sander Plain paper in 80x80mm squares Colouring pencils.	
9&10 PVA (1.009) Acrylic paint (4.012) CLEAPSS Hand tools (1.073)	Bell activity/starter: Read REACT feedback in silence. REACT improvements based on feedback. – Practical interim grade so students will complete the “student response” section, stating what they will do during the lesson to improve.	Support material REACT feedback sheets. Workshop equipment Vacuum former Plain paper cut into 80X80mm squares Pillar drill set up with 3mm drill bit	Powerpoint Aluminium wire Pliers and wire cutters Pva glue Disc sander Plain paper in 80x80mm squares Colouring pencils.	N/A

disc sander (1.083) Vacuum forming (1.055, 1.062) pillar drill (1.039)	Main: First 20 minutes - Students will make the improvements to their product Students will be given a demonstration of the vacuum former and will get their work vac formed during the lesson (preferably all students will get this done during the two hour lesson. Demo how to cut out round the edge of the vac formed piece with scissors and remove the wire and tracing paper. Students get MDF base drilled. If this is completed, students will draw their design to go under the maze NEATLY using the 80x80mm paper provided. Extension: Students should design a base label for their game: Woodworking joints used and practised to create a useful box. (A name for the game, their name as the designer/maker, barcode, instructions, image and or colour) Plenary: Students will write down in the space provided in their booklet what they think is the most important thing they have learnt today, and then hold it up for everyone to see	Extension material Plain paper cut up to 100x100mm plain squares of paper. booklets		
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11&12 PVA (1.009) Acrylic paint (4.012) Hand tools (1.073) Disc Sander (1.083) Vacuum forming (1.055, 1.062) Pillar Drill (1.039)	Bell activity: Starter: write down all the plastic products you use at home. Main: talk through powerpoint to explain plastics / properties etc. Talk through Vac former, redemo if needed. Students complete the plastics worksheet in their booklets. Talk through smart materials and discuss applications. Finish practical – applied finishes where needed. Get all paperwork into folders and complete front sheet. Get box to next teacher ready for change of rotation. Plenary: Write down in the space provided in your booklet what you think is the most important thing you have learnt today, and then hold it up for everyone to see .	Support material Booklet, powerpoint, applied finishes. Extension material Worksheet on smart materials – on system	Powerpoint Aluminium wire Pliers and wire cutters Pva glue Disc sander Plain paper in 80x80mm squares Colouring pencils.	