**Lesson Plan Template**

**Teachers:** Name: Michael Moore

**Course:** Exploring Technologies TIJ10

**Lesson Title:** What is a sample board?

**Unit Title:** Technological Design Unit

**Lesson Number:** 2

**Specific Expectations:**

A1.4 incorporate appropriate technological concepts (e.g., aesthetics, control, environmental sustainability/stewardship, ergonomics, fabrication/building/ creation, function, innovation, material, mechanism, power and energy, safety, structure, systems) in the design, fabrication or delivery, and evaluation of a product or service (see pp. 5–6);

A2.1 use a variety of appropriate methods to communicate information or ideas and concepts during the planning and production stages of a project (e.g., production plans, scripts, flow charts, storyboards, sketches, technical drawings, recipes, client consultation reports, design briefs);

A3.2 suggest improvements to a product or service on the basis of a set of criteria relevant to that product or service (e.g., durability, reliability, ease of use, eco-friendliness, appearance, safety, customer satisfaction)

**Prior Learning:** Lesson #1, activity on different taxi styles and types, activity on cabin layout

**Key Learning Goals**

Students will understand the purpose of a sample board.

Students will describe the different design elements included in a sample board.

Students will identify materials, textures, and colours used to create a sample board.

**Key Learning Question** (List any key questions you will ask during the lesson which may seek student prior learning or knowledge)

-What is a sample board used for?

-Are there different names that describe a sample board?

-What other design applications can a sample board be used?

-What should be included in a sample board?

**Materials List** (List the materials which may be needed to deliver the lesson whether it is a Socratic or Demonstration lesson format)

For students, hand out example of a sample board.

For the teacher, board, or projector to display video, speakers for video, sample materials of leather, suede, composite, automotive carpet, vinyl, metals.

A full interior door card.

Optional, new sample vehicle from a local dealership.

**Teaching Aids** (List any teaching aids needed for the lesson; Handouts, Power Points, etc. and include them with this plan)

[Example of a Sample board](https://docs.google.com/document/d/1tpavbfknFy4U1BwWibz5ndZfLwiHyNhiL7E-JQaVT2o/edit#heading=h.uvho5nmkcqyt)

Videos

[Presentation board](https://www.youtube.com/watch?v=b5Jg2fREEZo)

[Mood/Conceptual board](https://www.youtube.com/watch?v=0fVGLAqwyUI)

[Sample Board](https://www.youtube.com/watch?v=XeXEDTwEtak)

**Teaching Strategies** (Give step by step instruction on how to deliver the lesson, this should be clear and precise and there should be enough information given so that another teacher would be able to deliver the lesson)

-Start the lesson by pulling up an image an interior of a [Bugatti Chiron](http://i.ndtvimg.com/i/2016-03/bugatti-chiron-interior_827x510_71456819591.jpg) or [G-Wagon](https://platinumet.co.uk/wp-content/uploads/Overview/Mercedes-G63-Facelift-Red/interior-11.jpg) (or another luxury or hyper/super car)

-**Describe** each colour, texture, material, metal, wood, composite and where it’s located inside the vehicle.

-If you have samples, show samples of the interior materials, pass around the class. Discuss textures, colours, have everyone in the class have a feel of each.

-**Ask** the students where they think the harder materials, natural materials and textures should be place. If available have an interior door card for students to see a full-scale example. (Optional sample new vehicle from a dealership to sit in or ones in an Autoshop).

-Have the students consider which surfaces should be hard, example door handles, seat adjusters, steering wheel, the reasons could be wear and repetitive use, discuss as a class.

-Have the students consider which surfaces should be soft to the touch normally for comfort. **Ask** the students where they would locate these materials.

-**Explain** how a sample board incorporates all these samples in one area to view.

-**Show** the videos on sample boards, presentation boards, mood/conceptual boards. (might not want to show all three, choose one that best fits)

-Explain how a sample board will be used for this project

-Show example of a completed [sample board](https://docs.google.com/document/d/1tpavbfknFy4U1BwWibz5ndZfLwiHyNhiL7E-JQaVT2o/edit#heading=h.uvho5nmkcqyt).

**Modifications and Accommodations** (List any possible modifications or accommodations to the lesson needed to help students achieve the key learning goals of the lesson)

Review the needs for the classroom. Make notes or highlight points in the article for students that may require accommodations. Have a scribe ready if a student requires one based on their IEP.

**Terminology List** (List all new terminology that may be learned during the lesson)

-Mood board

-Sample Board

-conceptual Board

-[door card](https://en.wikipedia.org/wiki/Door_card)

-composite

-full-scale

**Literacy and Numeracy** (List any literacy strategies and numeracy strategies which may be addressed or delivered during the lesson)

Have long pause or stay on one page when showing example to give student enough time to read the slide. Pause video to explain key points or to review terms discussed.

**Closing Questions** (List any closing questions which may be used to reflect student participation during the lesson)

How will you use these items in your vehicle?

Did you find something new you might use?

What about textures, should some areas have more feel then others or is a smooth surface a better option?

**Lesson Reflections** (What when wrong/What went right, What can be changed)

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