

Product Design: Kitchen Clock

Design Brief: The **BHS 3-D Design Company** has been hired by **Times-R-Achangin, Inc** to design and model a **Kitchen Clock**. The clock will have a theme related to a chosen country – perhaps your own country of origin. Here are the parameters for the Clock Design:

- The clock must fit into a box that is 30 cm high by 30 cm long by 9 cm deep. There must be one centimeter of foam packaging surrounding the assembled clock
- The clock must be safe to handle, without any unusual precautions.
- The clock must have removable time indicators.
- The clock must use “hands” mounted on separate levels of a central shaft that is connected to a battery powered *mechanism*.
- The *mechanism* will be supplied by a third party vendor, but *must be modeled* in the design.
- The mechanism mockup must be between 5 cm and 6 cm square, with a thickness of approximately 1.5 cm. (see drawing).
- The designers name must be embossed on each part.
- The *mechanism* must have an integrated mounting hook, so the clock can be attached to a wall.
- There must be a *second hand*, a *minute hand* and an *hour hand*. (see drawing)
- The clock must run on a single double-A battery. A mockup of the battery should be included.
- The clock will have a graphic on the front face area that represents a tie to a country or culture. You will choose the graphic, and it will be produced by Mr. Huddy's Graphics students.
- ALL MODEL PARTS** must have the names of the designers engraved on the *outside* of *each part*.

Stakeholders: **Times-R-Achangin, Inc** (profits), people who buy the clocks, anyone who use the clocks, U. S. Product Safety Commission are all stakeholders.

Name _____ Class Period _____

Product Design: Kitchen Clock

Research and Investigation: Investigate current *kitchen clock* designs on the Internet. Sketch 4 design ideas that you *find* (15 minutes ONLY).

1	2
3	4

Name _____ Class Period _____

Product Design: Kitchen Clock

Initial Design Procedures: Use the next two pages to work through sketch ideas for your Clock Face and Hand designs. Your sketches should be in either *Perspective* or *Isometric* styles, and labeled as such.

Name _____ Class Period _____

Product Design: Kitchen Clock

Sketches:

Name _____ Class Period _____

Product Design: Kitchen Clock

Daily Design Log: Explain the challenges and successes that you encountered during each day of design. Use complete sentences and give as much detail as possible

Date	Log Entry