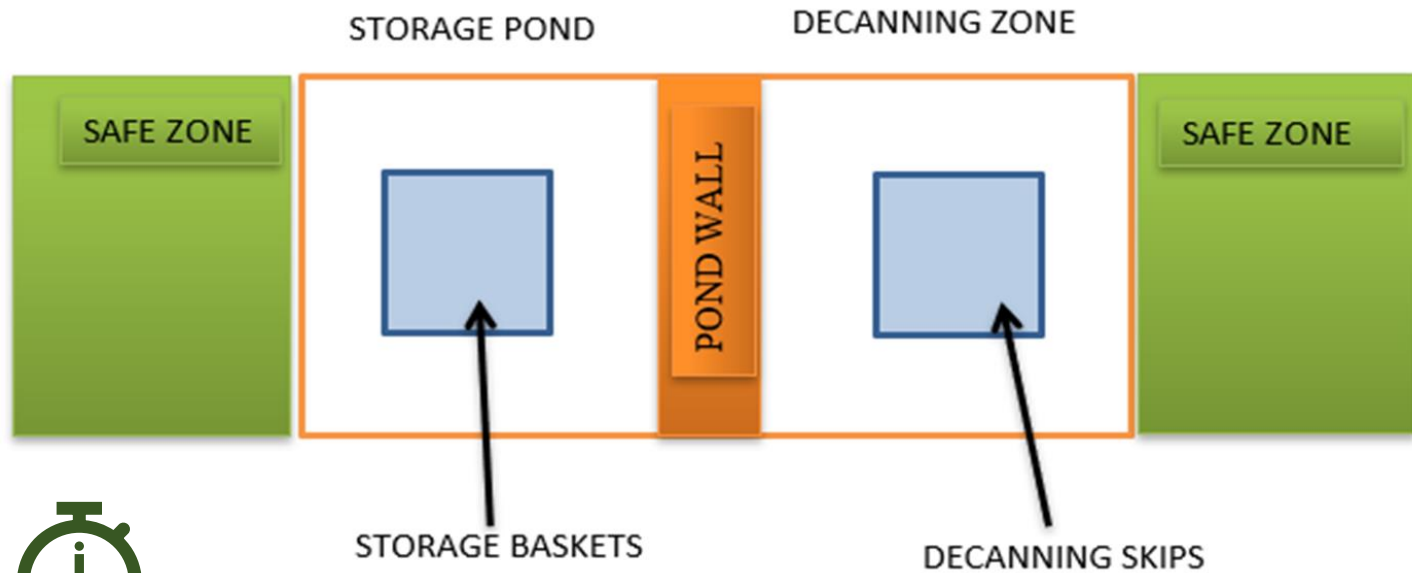


## WHAT TO DO

TO CREATE A SOLUTION FOR MOVING FUEL ELEMENTS FROM THE STORAGE POND, TO THE DECANNING SKIP IN THE DECANNING ZONE IN A SAFE AND CONTROLLED MANNER.



### Timings

5 Minutes: Plan & Design

15 minutes: to construct and test



ALL personnel must be in the SAFE ZONES



NO personnel shall COME INTO CONTACT with any equipment use ABOVE THE STORAGE POND or DECANNING ZONE



ONLY equipment PROVIDED can be used



ALL members of the team can TAKE PART in plant OPERATIONS



NO equipment shall COME INTO CONTACT with the POND WALL

Any dropped fuel will be classed as a nuclear safety incident!



**Planning Period:** Use this time for thinking about ideas and planning your design

**Construction Phase:** Use this time to construct your build.

You can use:



STRING

ELASTIC BANDS

BLU TAC

STAPLES

6 A4 SHEETS

TAPE

PAPER CLIPS

PAPER-CUPS

Your tools are:



SCISSORS

STAPLER

HOLE PUNCH

Once you have constructed your design – test it by transferring fuel from the storage pond to the decanning zone.

### EXTRA CHALLENGE



Now try the extra challenge to see which team can move the most fuel elements (ping pong balls) from one skip to the other, in 45 seconds.



### DESIGN IDEAS

If you are struggling to think of a design, consider each aspect of the design individually.



1. Flask Design: Something to hold the ping pong ball

2. Fuel Collection: How to pick the ping pong ball up



3. Fuel Transfer: Moving the ping pong ball from one side of the wall to the other

4. Fuel Deposit: How to empty the flask, Tip the ping pong ball out