Making Dirty Water Drinkable! Student Worksheet

Group Member Names:

1. Define the Problem: ask to identify the needs and constraints, research the problem
   __________________________________________________________________________
   __________________________________________________________________________
   __________________________________________________________________________

2. Possible Solution: imagine possible solutions, plan by selecting a promising solution
   __________________________________________________________________________
   __________________________________________________________________________

3. Sketch your water bottle design here:

   Create your prototype.

4. Dirty Water Quality Test:
   Appearance:
   __________________________________________________________________________
   pH:__________ (Ideal pH is 7)
5. **Test Water Quality (#1)**
   Appearance:
   
   __________________________________________________________
   
   pH:__________( Ideal pH is 7)

6. **Reflection of Initial Test:** How can you **improve** your design?
   
   __________________________________________________________
   
   __________________________________________________________
   
   __________________________________________________________

7. **Redesign Sketch:**

   ![Redesign Sketch](image)

8. **Test Water Quality (#2)**
   Appearance:
   
   __________________________________________________________
   
   __________________________________________________________
   
   pH:__________( Ideal pH is 7)