Engineering Water in Extreme Environments RSG & Activities 1-9 Our Ideas Poster

Prep & Setup Guide

Poster Components

All poster components can be printed on **8.5 x 11" paper**

There are PDFs for:

- **Poster Pages** to build the poster (pages numbered in lower right corner with corresponding adventure(s))
- **Poster Pages** with examples are for educator reference only and not intended to print.
- Blank Pages for more space or to build your own poster
- Blank ¼ page cards for learners to add additional terms, drawings, ideas
- Term cards:
 - Icon-only
 - Term + icon

Setup

To set up the poster space, you will need a wall or whiteboard area of about **80" Length x 60" Height**

Please see the following pages for setup examples. You may choose alternative layouts to fit your learning environment.





Poster Setup (with Example)

Our Ideas about Water in Extreme Environments Engineering



Poster Setup (with Example)

Our Ideas about Water in Extreme Environments Engineering



Water in Extreme Environments -Engineering

RSG & Activities 1-9 Our Ideas Poster

How can we identify where there is water? How can we get it?









Why is water important??



Who uses water in our community?

How do they use water?

Add learners' index cards here



Uses that <u>do not</u> need clean water

Add learners' index cards here



How can we reuse water in a place where water is hard to get?





Learner vocabulary

Activity 2, 3, 5

How can we tell if water is safe to reuse?

What are some ways we can measure how clean or contaminated water is?

Activity 3



How can we improve water quality?

Add learner's sticky notes here

Filter



Activity 4

In what orders can water be reused?

Criteria

Things your design needs to do



Constraints



You cannot move the container or touch it directly. Limits on a design

Process

-a series of actions or steps leading to a result or goal



Learner vocabulary

Does our final water reuse process meet our water quality goals?

How can we improve our water reuse processes?

What design recommendations do we have for water reuse processes?

How can we share our water reuse process recommendations with others?



