STEM Family Learning
Stop the Spread
Welcome! What is in store?

Session 1: Teambuilding Activity/ Introduction to Project.
Session 2: Challenge Planning/ Research
Session 3: Refinement and CREST Discovery Passport
Session 4: Model Making
Session 5: Testing and Evaluation / Intro to new Project
Aims

• Increase your awareness of STEM
• Increase your **STEM Capital**
• To develop problem solving skills through practical problems.

**Structure of STEM Activities**

1. Identify a Problem
2. Analyse Brief
3. Research and Idea Generation
4. Model and Solution
STEM Capital

STEM Capital incorporates an individuals STEM knowledge, attitudes and way of thinking.

https://www.youtube.com/watch?v=A0t70bwPD6Y&feature=emb_logo
How to Structure a STEM Project.

Planning

• Allocating roles and responsibilities.
• Analysing the brief.

Research

• Looking into related topics and forming judgements.

Presenting

• Displaying your research on a poster or presentation.
• Creating a model to emulate your design.
You have 20 minutes to build and construct a balloon chair which will hold the weight of the youngest member of your team!

Materials available:

x20 Balloons and Tape.
Task 1: Team Roles - which one were you?

- Team Manager
- Designer
- Construction Manager
- Resource Manager
Identify your role in the team?

What was the problem? How did you tackle it?

How did you manage your materials?

How successful was your design?
Stop the Spread Challenge

Imagine you work for a charity and have received some funding to help pupils in a school in Kenya reduce the spread of disease in their school.

Your challenge is to:

1. Build a model of a hand washing device that could go in their playground which will enable them to capture rainwater then use it to wash their hands.

2. Develop education materials which will help children aged 8-11 understand why hand washing is important. This could be a poster, animation, game, play, leaflet.