Session 1: Sustainability & skills in science

Andy Bullough of School of Education and I conducted a 'Hot House' one hour workshop at the ASE Science Conference in Birmingham on 11/01/2019. The Hot House resource is rich in a context based approach around physics, energy and thermal transfers. Developing practical skills and test content knowledge at KS3 to better prepare students for KS4.

The resource contains a novel HOT HOUSE template to build, worksheets, video and Inno-therm recycled cotton insulation. Initial trials have been successfully conducted by teachers in schools in Sheffield and Yorkshire area and training teachers.

It incorporates an approach to learning that facilitates development of problem solving and the value of failure in the learning process essential for up-skilling for employment. Science specific but with a sustainability context based energy saving around Health & Well Being.

The target audience are: University and Colleges courses in construction and energy efficiency, architects, teachers and teacher trainers, technicians, and science advisors, A-level, primary and GCSE and focus on KS3/KS4.

Components of resource

1. Video
2. HOT HOUSE template along with classroom worksheets and design & construction guide.
3. Thermometer options (not included): normal, digital and wireless plus software.
4. Insulation: Inno-therm/Metisse recycled cotton/denim thermal insulation and other 'eco' insulations. Postage required.