



MISSION POSSIBLE

WILL BIOECONOMY SAVE THE WORLD?

Attention: You're invited to Mission Possible, Satrosphere's brand new exhibition on the bioeconomy, making its only UK stop on its European tour! The exhibition is designed to be suitable for all ages, addressing the complex issues of the bioeconomy through the use of touch-screens, interactive workshops, tours, a cinematic area and talks for a six month period from November 2013 - April 2014. The exhibition has three main areas of interest: **AGRICULTURE AND FISHERIES**, **FOOD AND WELL-BEING**, and **BIOTECHNOLOGY AND LIFE SCIENCES**. Each area has its own dedicated programme of workshops, and outcomes that match up to the curriculum of excellence.

WHAT TO EXPECT

The exhibition is thoroughly interactive, fulfilling curriculum of excellence outcomes from the get-go. The beginning of all sessions is prefaced by a short video and introductory discussion, offering LIT 2-29a before continuing to a workshop. During the session there will also be the opportunity for independent exploration of separate activities. Exhibits like our microscopes

(showing life in a drop of water) are suitable for SCN 3-13a, while overall we satisfy SCN 0-20a, SCN 0-15a, SCN 1-20a, SCN 1-15a, SCN 2-20a, SCN 3-20B, and SCN 4020a. We also look in depth at the environment (SOC 0-08a, SOC 1-08a, SOC 2-08a, SOC 3-08a, SOC 4-08a), living sustainably (TCH 1-02a, TCH 2-02a) and healthy living (HWB 0-27a, HWB 0-28a, HWB 1-28a, HWB 2-27a, HWB 2-28a, HWB 3-27a, HWB 3-28a, HWB 4-28a). After exploration and a selected workshop(s), pupils return to the cinematic area to discuss their findings and reflect upon their beliefs/opinions (LIT 2-29a), concluding the session by taking part in our feedback wall. All of the workshops have pre-designed materials and handouts, designed for maximum engagement. Teachers are free to select from the range below, and advised to allow for 2-3 hours in total for a visit (to include a lunch/snack break, and time for independent exploration of the exhibition floor). Workshops are divided into the three areas, but are fully compatible with one another. While one can focus on one area (with several workshops) we can easily accommodate for a number of areas to suit teaching needs.

WORKSHOPS

MEASURE UP is an interactive workshop examining the various measurements taken to do with the body and health, it promotes health thinking and allows pupils to examine new scientific tools. **OUTCOMES INCLUDE** HWB 0-30a, HWB 0-35a, HWB 1-35a, HWB 1-30a, HWB 2-30a, HWB 2-35a, HWB 3-31a, HWB 3-36a.

HEALTHY PEOPLE HEALTHY PLANET is an interactive workshop examining the impact of human activity on the world, primarily through food sourcing. It will provide the opportunity to persuade, and debate, issues using relevant support details. **OUTCOMES INCLUDE** SCN 2-04b, SCN 3-05b, TCH 2-02a, SOC 2-08a, MNU 2-11b, LIT 2-29a, RME 1-08a, RME 2-08a, RME 3-08a, RME 4-08a.

STARCH TESTING is an interactive workshop looking at starch, and what foods it exists in. This promotes healthy living. **OUTCOMES INCLUDE** SCN 2-19a.

VACCINES is an interactive workshop looking at the scientific procedure behind vaccine methods, and the need for these in the future, with the increase of animal to human diseases. The workshop can also cover the need for scientific fact, rather than scares, when it comes to vaccination. **OUTCOMES INCLUDE** SCN 1-13a, SCN 3-13a and LIT 2-29a.

BIODEGRADABLES is an interactive

workshop looking at the scientific procedure behind biodegradable materials, offering discussion as to the advantages and disadvantages of these materials. **OUTCOMES INCLUDE** TCH 0-02a, SCN 1-16a, TCH 2-01a, SCN 2-13a, TCH 4-02a, SCN 4-13b.

PHOTOSYNTHESIS is an interactive workshop looking how plants produce oxygen, and therefore energy. **OUTCOMES INCLUDE** SCN 2-02b, SCN 4-04a.

FLEETING FARMLAND is an interactive workshop looking at increasing need for land use consideration in agriculture and life. The workshop allows pupils to consider, through experimental evidence, the advantages and disadvantages of land use development. **OUTCOMES INCLUDE** HWB 0-35a, HWB 1-35a, HWB 2-35a, SOC 2-08a, SOC 2-09a, SCN 3-03a, SOC 4-09a.

GROUND WATER is an interactive workshop looking at clean water, and the essential role of water in the bioeconomy, as well as the need for uncontaminated water in agriculture. **OUTCOMES INCLUDE** SCN 2-03a, SCN 2-05a, SCN 2-16a, SCN 2-18a, SCN 3-03a.

POTATO CLOCK is an interactive workshop looking how much energy is in a potato (enough to power a clock!) allowing pupils to discuss how much energy a potato must therefore use and what society's needs are. **OUTCOMES INCLUDE** SCN 1-09a, SCN 2-09a, SCN 2-10a,

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MISSION POSSIBLE is available from November 2013 to April 2014. For more information find us at www.facebook.com/biopromnet or follow us @BIO-PROMabdn. For more information on themed weekends and upcoming public events please email bioprom@satrosphere.net. To book a place for schools or enquire please phone 01224 640340.



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