At a glance

Course: **The Heat is On!**

Topics: **space, STEM**

Platform: **Cosmic Education**

Type: **Classroom support**

Size: **45 min sessions**

Key metrics

Launch planned for 2025

Trial in schools across Wales

Digital classroom resources

STEM education

Space activity

Cosmic Education for Cardiff Uni

Innovation with eLearning for astronomy in schools

PROJECT BRIEF

The **PHYSX department** at **Cardiff University** wanted to develop innovative teaching resources on astronomy and science topics.

This would require a customised platform to deliver accessible eLearning materials to schools across the country.

The first course will trial new digital means to assist teachers with additional expert materials within practical classroom workshops.

CHALLENGES

To support classroom sessions of groups of children without requiring any login information with personal data.

To enable a reward system and measure success of progression without recording individual account data.

To design a fun and interactive course within a single class session.

SOLUTIONS

We designed a custom eLearning platform focused on teachers hosting "parent accounts" which generate "training sessions".

During an active "training session" class children may easily access the selected course to explore materials and complete activities.

We created a custom "slide and reveal" activity to explore digital imagery, replicating the use of an infrared camera in the classroom.

Data analytics captures the success of teacher training sessions.

OUTCOMES

- Teachers retain control of eLearning use to support classes.
- **Cardiff University** can provide additional resources on difficult concepts in a fun and engaging way for groups to enjoy.
- The cartoons and story universe makes the content appealing and more memorable.
- Digital certificates may be accessed by the teacher account for printing and signing as desired to reward efforts.
- The eLearning platform provides a uniform and updated delivery method for easily accessible teaching resources.