

# Leveraging the potential of astronomy in formal education

*Monday, 1 September 2025 09:40 (20 minutes)*

The International Astronomical Union's Office of Astronomy for Education (OAE) focuses on advancing astronomy education at the primary and secondary school levels. Yet astronomy's relevance extends far beyond the discipline itself. This talk highlights efforts to professionalise astronomy education in schools through the Teacher Training Programme (TTP).

The TTP is designed to strengthen teachers' astronomy knowledge while contributing to broader STEM education and capacity-building initiatives. It follows a collaborative professional development model that brings together a National Astronomy Education Coordinator, an astronomer, and a local teacher. This partnership blends scientific expertise, pedagogical knowledge, and community engagement.

The TTP adopts a bottom-up approach, tailoring training to local contexts and fostering the adaptation and translation of resources provided by the OAE. Building on lessons learned from earlier TTP projects and insights from the global curriculum survey, the OAE has developed the Astronomy Teacher Training

Transparency Standards (AT3S) – a framework that offers a more standardised and transparent approach to designing and implementing astronomy-related teacher training worldwide.

**Primary author:** Dr MAKWELA, Tshiamiso (Office of Astronomy for Education)

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