

Gastvortrag

Prof. Russell Tytler Ph. D.

Deakin University, Melbourne

Constructing representations to learn science

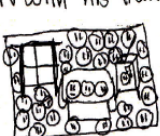
15.7.2014, 12.00 – 14.00 h

Habelschwerdter Allee 45, Raum KL 25/134


In this talk I will describe a guided inquiry approach to teaching and learning science that involves students constructing, negotiating and refining representations and models. The research involved working closely with teachers over a number of years to develop and validate this pedagogy, producing evidence of quality learning including meta-representational competence. I will describe sequences of representation-focused activities, including classroom talk and student artefacts, to argue that this approach reflects the way knowledge is built in science, and to explain the perspective on learning underpinning the approach.

Diagram !!

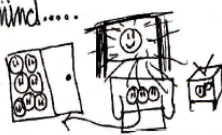
One day Blob the water molecule 11 was sitting at home watching TV with his friends.




Then suddenly ~~of~~ a stream of ~~sug~~ sunlight came through the window.



Sadly, all of Blob's friends had to go. But Blob didn't mind....





Because he came too!




5 Representational challenge


Hand Print


1. 


2. 

3. 

π where puddles are the paper is darker
 * where it is darker the paper is thinner
 * The parts that are darker I pressed harder


Paper is very wet


The paper is a bit dry


Less molecules in the paper

Der Vortrag wird in englischer Sprache gehalten.