

**EXERCISE 1: MAPPING STUDENTS' PREVIOUS KNOWLEDGE  
GUIDELINES FOR COORDINATORS AND TUTORS**

Objective	Inducing students to reason about the topic of energy planning, making the most of what they already know.
Suggested focus question	What concepts should be included in the practice of sustainable, integrated energy planning?
Suggested steps	<ol style="list-style-type: none"> <li>1) Students work individually, making a list of meaningful concepts concerning the focus question. They should be suggested to list around 15-20 concepts (without linking phrases!) (20')</li> <li>2) Teachers choose about 10 lists and invite students to present and discuss them (40')</li> <li>3) Students work individually and make a c-map out of the concepts they have listed, connecting them through meaningful linking phrases. Concepts can be removed/added/modified from the list (1h)</li> <li>4) Teachers choose the more interesting c-maps and invite students to present and discuss them (30')</li> <li>5) Teachers make a further selection of c-maps and invite students to form groups of 3 to 5 people (better if from different disciplines/backgrounds) and adjust/improve those maps (1h 30')</li> </ol>
Equipment needed	Laptop or desktop PC with Cmap Tools software installed Internet connection