Discover Dark Matter Pedagogical Scenario

Pre-briefing

Complete the Mission planning document.

Familiarization with VR technology and needs (out of class) Use a headset. 1. Plan sufficient physical space for the VR group activity. Test casting on a device. curation **For more information, consult the Teacher's guide.** Preparation of material (out of class) Prepare pedagogical material and go over the documentation to be distributed: Teacher's guide. VR headset Introduction document Mission planning document. Pre-simulation questionnaire curation Mission's chief instruction document Engineer's calculation document 6. 7. Post-simulation questionnaire It might be useful to understand the basics of dark matter and dark energy. Mapping of detailed activity plan and distribution of documentation (in class) 1. Map the activity plan 2. Brief overview of the concept of dark matter. 3. Review of the concepts of conservation of energy, of gravitational potential energy and of circular dynamics, if needed. 5 min Distribute the Mission planning document Distribute the VR headset introduction document Preparation for the activity (out of class) Read accompanying document

30 min

Individual



