



Lesson Plan

Title	Astronomy
Aims of the lesson:	The aim of the lesson is to present the subject of astronomy which is a fascinating and thrilling field. However, it requires the observation of the sky at night, and which is difficult in the school environment. Photos and maps in the manual cannot replace the view of the starry sky.
Learning Outcomes	Students learn the basic knowledge about the astronomy. Students learn the ICT skills - students work with computer programme with rotating sky map "Stellarium" (virtual planetarium). It assists their recognition of stars, planets, constellations and allows for observation of the sky
Methodology	Lecture (introduction) Work in groups on experiment
Resources	Virtual planetarium "Stellarium"
Content of the classes	The teacher provides lecture on astronomy. Teacher explains terms such as: stars, planets, constellations. Rotating map of sky is presented. With it you can determine the appearance of the sky at a certain time every day of the year. It should teach students to operate this utility. The overlay window and changing the rotational position of the constellation depending on hours and seasons. Only the position of the Pole Star remains Immutable, around which the apparent motion of the sky takes place.
Practical exercise	<p>Exemplary exercise for students: Using a rotating map of the sky, point to several constellations of the summer sky, winter sky constellations and several non overlapping - visible all year round.</p> <p>Stellarium This is very helpful, easily accessible (free) software program that allows you to recreate a realistic picture of the sky at a chosen time and place in the world. The program helps to present the effects of the Earth's rotation, keep track of wandering planets, phases of the moon, to recognize the constellations. It is an invaluable aid in the understanding of many astronomical phenomena.</p> <p>Example exercise for students: The Big Dipper is a constellation known and recognized by many people, can serve as a signpost stellar. Using Stellarium program, specify how you can find other constellations that are close to him. Look at the graphic interpretations of chosen constellation. Learn the origin of their names. In the evening, try to find the constellations in the sky.</p>





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	<p>Rotary map of sky and Stellarium program helped many kids get started in astronomy. They are happy to attempt to do self-observation, ask questions, share experiences and display achievements.</p>
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Learning
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