

Teachers' Guide

Lesson's Objectives

- What is a satellite and what is the difference between a natural and an artificial satellite
- Where the satellite dish is used
- How the crown gear is used
- Development of fine mobility skills
- Students cooperate with each other
- Students develop their creativity and critical thinking skills to solve a problem they are given

Introduction to the lesson

In the introduction of the lesson, discuss with your students what is a satellite, what is the difference between a natural and an artificial satellite, and where you can use the satellite dish. Discuss that the satellite dish is contains gears.

Simple machine

You will use the gear. Among the gears you will use, there is the crown gear. It is used when we want to transmit motion between gears whose axes of rotation are at an angle of 90° .

Building

Simple building, follow the instructions. Build until step 22. The rest are mentioned in the worksheet.

Answers to the worksheet

1. C, you need to change places in the gears
2. 3 rotations
3. Add wheels
4. To enhance the signal, you can use place the indicator higher, or use a bigger plate. For the first occasion, you can follow the guidelines in steps 1-20 that follow.