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Vex robotics curriculum 4.3

Description of how to assemble and create animations of the clawbot robot is shown in the 16-click video video to view the content. To carefully study and understand the content of the video, use the Pause, Rewind (Rewind) and Stop functions. Simple selection and paste Gearing & Wheels Using Inventor Studio to create visualizations and animations of robot projects, check here to upload videos for offline viewing. This video explains all the important steps of VEX Clawbot modeling in the Autodsk Inventor environment. This video explains how students use the Autidesk Inventor file to organize the location of the file. The discovery of ready-made robot files in Autodesk Inventor shows next, here is an overview of the view management tool. Note: The files required to do this job must be downloaded in advance. You must select a matching data set. Next you have to unpack the files and store them in a new project folder called Clawbot Inventor 2011 – Imperial .zip Inventor 2012 - Imperial .zip Inventor 2013 - Imperial .zip Inventor 2011 - .zip Metrics .zip 2012 - metric .zip Video 2: Start a new assembly (new assembly) Click here to download videos for offline viewing This video shows the square hole of the frame structure element that requires proper alignment. The method of assembling parts using the proposed iMates elements for each hole simplifies the whole process by reducing the number of clicks. This video explains all the assembling parts needed to assemble the main frame by adding three additional C slots and a bumper. This video describes students who assemble frames using standard autodesk components. Using the Content Center can place parts in the scene. As part of this project, finding and installing standard parts in the main frame is done using previously used iMate technology. This video describes the installation of flat support by students and On the main frame, the vex robot's leading shaft rotates in flat support, these support is held on the frame with the help of anchor pins. This video describes the installation of the student's leading shaft and collar to assemble the main frame. The collar is placed at the end of the shaft to hold the rear. This video describes the installation of wheels in the clawbot robot assembly, the assembled wheels consisting of 60-tooth gears, 4-inch wheel plates and collars. Restrictions are set between all sections to ensure that they can be rotated correctly. Video 8: Create wheel editing Click here to upload videos for offline viewing In this video, the student makes it easy to place a piece of the wheel by creating a subset. After placing the wheel on the floor, the 60-tooth gear is mounted between the wheel and the gear may be limited. Movement Video 9: Gear Alignment Click here to upload a video for offline viewing. This video describes a student who uses a working plane to braces gear. To properly align the teeth of the gear, you need to build a working plane. through the center of the tooth or the gap between the teeth. These working aircraft can be used to align by overlaying the working planes on top of each other. Video 10: Create a hand capture power transmission click here to upload the video for offline viewing in this video explains the learner hand assembly using themed gear and collar. Transmission of handles assembled using 84 and 12 gears, axe teeth and collars, the corresponding gear with the aircraft works similar to wheel transmission. Video 12: Create a hand capture, click here to upload a video for offline viewing in this video describing the installation by the student holding hands in the robot assembly. Video 13: Create a complete robot, click here to upload a video for offline viewing in this video explaining the students who installed the remaining parts to assemble the robot. The capture clawbot is superimposed on the arm of the handle. 14 videos: visualizations, music and android animations, click here to download videos for offline. This video explains the use of Inventor Studio students to create images and animations of color robots. The results click here to upload a video for offline video viewing, this video provides an analysis of the techniques used in robot simulation. Autodesk Inventor techniques are used to simulate robots, including assembling parts with iMates. Creating pick to speed up the assembly process Using Autodesk Inventor to create light-colored images and animations, want to explore other projects based on VEX robots as well as other exciting experiments? Visit Autodesk Digital Steam Workshop: www.autodesk.com/digitalsteam Page 2 Automated Design System (CAD) is a tool that designers use to turn ideas drawn on handkerchiefs into full-fledged 3D models. As they say, one image is worth a thousand words and a three-dimensional model - millions, page 3, 3.