Forces and Interactions

PLTW Module – Grade 3

Day 1: 80 minutes

1. Give students login information.
2. Project the story and read together.
3. Have students login and go to activity 1.

\* Discussion

* What is the problem?
* What do you need to know to be able to design a solution to the program?

1. In partners, students will watch the introduction to forces video and answer questions in their launch logs.
2. Partners will go to sdzsafaripoark.org/tiger-cam to watch live tigers and then record observations in launch log.
3. Read "How Do You Life A Lion "to the class.
4. Partners will go through the Simple Machines presentation together.
5. Follow step 6 in their procedures to create a simple machine using the Vex kits.
6. Students will take a picture of their wheel/axel and email it to me.

Day 2:

1. Review the problem in the story.
2. Remind students that they are building skills and knowledge in this next activity to solve the problem.
3. Students will define the words from the introduction to activity 2 in their Launch Logs.
4. Students will follow the procedures to construct an incline plane and complete Part 1 of the Launch Log. Students must get Launch Log checked before they move on to part 2.
5. Students will follow the procedures to construct a lever and complete Part 2 in their launch log. Students must get Launch Log checked.

Day 3:

1. Students will work through procedures for Part 3 of Activity 2, constructing a pulley. Students will complete Launch Log and answer Conclusion Questions before moving on. These must be checked by teacher before moving on. Groups will present a Popplet at the end of the activity, so remind them to take pictures.