POP! TEACHER RESOURCE

Lesson Plan

Pulley Power

Lesson Plan for *Cranes* Grade 1

Objective

To help students combine information from a text and a video to build their understanding of pulleys.

Things Needed

- Cranes book
- Access to the "Cranes" web page on the Pop! website: https://popbooksonline.com/construction-vehicles/cranes
- Access to the PBS Kids "Design Squad Nation: Pulleys" video listed on the "Explore Links" tab of the Pop! web page. This video can also be found here: http://pbskids.org/video/design-squad-nation/2342064713

Before the Activity

Read *Cranes* out loud to students. Open the "Cranes" web page in your internet browser. Pull up the "Explore Links" tab and click on the PBS Kids website, "Design Squad Nation: Pulleys."

Activity

To start, watch the video on how pulleys work. Then, students should use that video as well as the text and image on pages 12 and 13 of the *Cranes* book to answer the following questions:

- What are the parts that make up a pulley? (Possible Answers: a wheel, a rope, an axle, a load)
- How does a pulley work? (Answer: A piece of rope curves around a wheel. Pulling down on one end of the rope causes the wheel to spin. The other end of the rope lifts up.)
- What can pulleys be used to do? (Answer: Pulleys can be used to lift things.)
- What examples does the video give for how pulleys could be used? (Answer: The video showed a flag being raised on a flagpole. It also showed cat food being lifted via a pulley system.)
- What example does the book give for how pulleys could be used? (Answer: The book talks about how cranes use pulleys to lift loads.)
- Can you think of another situation where a pulley could help people lift something? (Answers will vary.)



Evaluation

Could students answer questions about how pulleys work and what they can be used for? Could students think of other situations where a pulley would be useful?

Standards

This lesson plan may be used to address the Common Core State Standards' reading standards for informational texts, grade 1 (RI 1.6).

