

**CURRICULUM AREA:** Technology & Enterprise

**TARGET YEAR LEVEL/S:** Years 6 – 7

**CLASS TIME:** 3 lessons, varied times.

## LESSON BACKGROUND

The revolutionary 'PAC' amphibious cart, designed and built by Chris & Clark, demonstrates a need for reliable transport that can cope with the Tundra terrain, carry all their equipment, and be easy to move. This lesson asks students to do a similar thing. After being given a DIFFERENT terrain to deal with, students must design and create a model of a transport system that could be used to trek across that terrain, hauling their food, water and supplies.

## OUTCOMES

- Uses an awareness of how existing products and processes affect people, applying a more methodical approach when creating or modifying technologies that meet human needs, communicating ideas and comparing the result with the original intention.

## PREPARATION

- Raffle Cards with different terrains on them (desert, rainforest, mountainous, etc)
- A4 paper
- Random craft equipment for model making (students can bring in their own things)

## STUDENT ACTIVITY

- 1) First, ask each student to pull out one of the raffle cards from the hat. The one they pull out is the terrain that they will have to hypothetically travel through.
- 2) Students, using A4 paper, must design a cart that could be used to carry their food & supplies, and handle their terrain. The design must be labeled, and the students must explain HOW their proposed construction will work.
- 3) Once the design is approved, students are to use materials to build a small representation of the proposed cart, keeping true to their design.
- 4) Once this is done, students evaluate.

## EXTENSION

- Students can use this TRANSPORT idea, and design a backpack for a similar trip.

