



Gulf of Georgia Cannery National Historic Site of Canada
12138 Fourth Ave. Richmond B.C. V7E 3J1

Pre-visit Package: **Machines at Work**

Grade: 5

Duration: 90 mins

PLO's:

Grade 5

Science

-demonstrate mechanical advantage of simple machines, including lever, wedge, pulley, ramp, screw, and wheel.

-describe applications of simple and compound machines used in daily life in BC communities

*Can be adapted to fit Grade 6 SS PLO: D3 effects of technology on lifestyles and environments

Goals:

*Students will be introduced to the simple machines located within the Gulf of Georgia Cannery

*Students will analyze how machines work and have changed over time

*Students will create a compound machine using the simple machines that are located within the Cannery

Program Summary:

Upon arriving at the Gulf of Georgia Cannery, students will engage in the following activities under the guidance of a Cannery Interpreter:

- *Modern Times* Film
- Canning Line Tour and Machine Demonstration
- 'Design your own machine' activity

Pre-visit Activities:

- Cannery Machines Word Search
- Handout: Simple Machines vs. Compound Machine
- Handout: Simple Machines at Home



Resources:

- *Edheads*, <http://edheads.org/activities/simple-machines/index.htm>
- *Rube Goldberg*, <http://www.rube-goldberg.com/>
- *The Way Things Work*, David Macaulay
- *So, You Want to Be an Inventor?*, Judith St. George
- *Hooray For Inventors!*, Marcia Williams
- *The Real McCoy: The Life of An African-American Inventor*, Wendy Towle
- *From Indian Corn to Outer Space: Women Invent in America*, Ellen H. Showell

Post-visit Activity:

- Handout: Gang of Knives

Simple Machine Key:

Cannery Machine	Simple Machine(s)	Cannery Machine	Simple Machine(s)
Peugh	Lever	Fish Elevator	Inclined plane, Wedges, Pulley
Hand Butchering	Wedge	Iron Butcher	Gears, Levers, Wheel & Axle, and Wedge
Sliming	Inclined plane, Pulleys, Wedge	Gang Knives	Wedges, Pulleys, Wheels & Axles
Steam Belts	Pulleys, Wheels & axles	Filling Machine	Gears, Inclined plane
Weighing Machine	Lever, Gears	Clincher	Screw, Lever
Vacuum Sealer	Screw, Pulleys	Retort	Wheel & Axle, Screw



Name: _____

Cannery Machines Word Search

R H H S O K P C Y E G Z I C R
R D T M C V H R L G E P S T E
E S E Q G B B E K Y A M N B H
T R A N J W V D N V R W H C C
O G E L I A R E H C N I L C T
R H Y V T L R H F N J A O R U
T Q L O E E C E W I E Y G M B
M W R I H L G N B R L X P B H
E O M G P D X U I L Q L P R F
J X I R E Y P J J E Z B E Y G
S E A W U U S C R E W O R R Y
W B O I L E R D O H A U M F R
Q L V L E N A L P W N X G N H
G X E E O C S V O H W L L X B
N Y A T X V A I D Z P P Q E B

AXLE
CLINCHER
GEAR
PLANE
SCREW
WHEEL

BOILER
ELEVATOR
INCLINED
PULLEY
WEDGE

BUTCHER
FILLER
LEVER
RETORT
WEIGHER



Name: _____

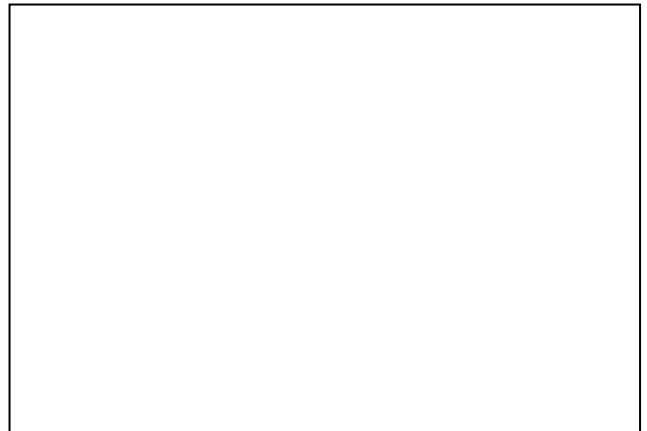
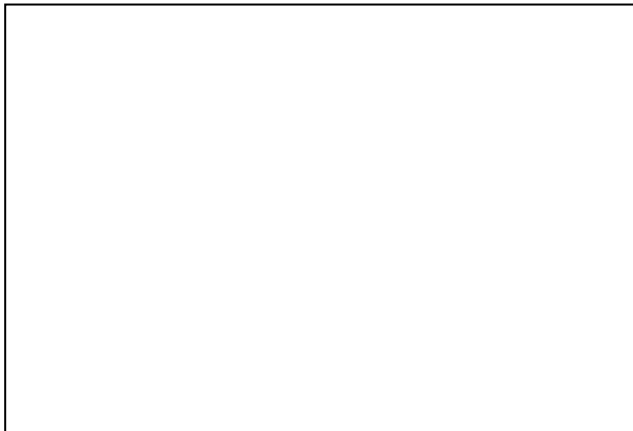
Simple Machines vs. Compound Machines

Identify and describe the key components of a Simple and Compound Machines.

Next, draw an example of one Simple Machine and one Compound Machine.

Simple Machine

Compound Machine

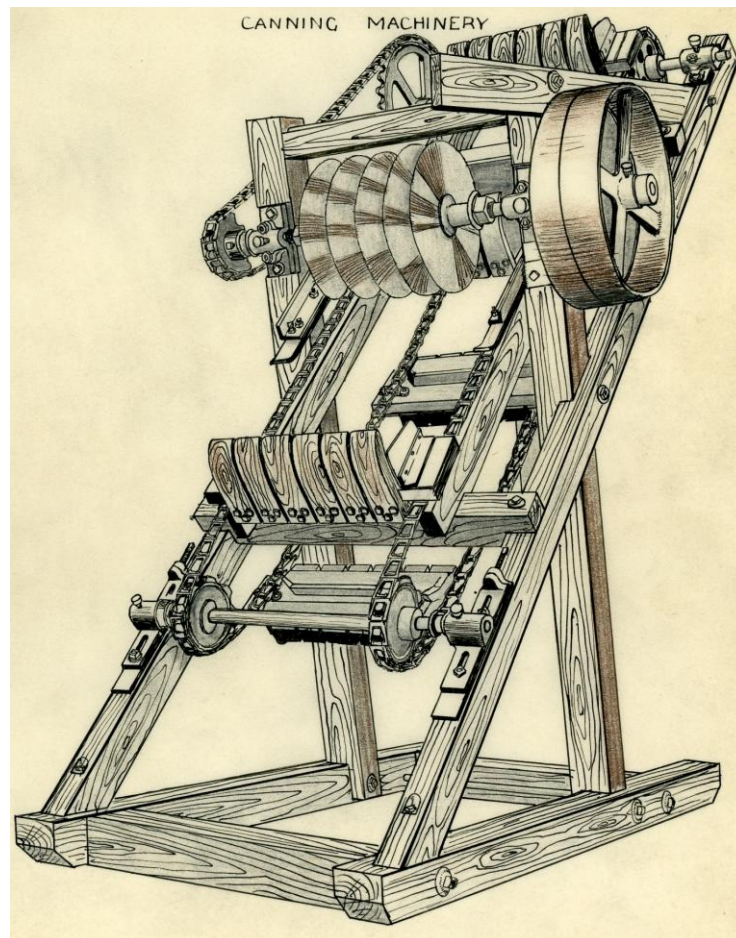




Name: _____

Gang of Knives

Using your new knowledge regarding Cannery machinery, label all the simple machines in the Gang of Knives Machine.












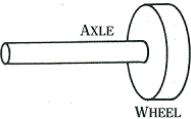
Gulf of Georgia Cannery National Historic Site of Canada
12138 Fourth Ave. Richmond B.C. V7E 3J1

Simple Machines at Home

Name: _____

How many types of simple machines do you have at home?

Use the chart to identify how many Simple Machines you can find.

Rooms in your home	Gears	Incline Plane	Lever	Pulley	Screw	Wedge	Wheel & Axle
							
Living Room							
Kitchen							
Bedroom							
Bathroom							
Garage or Storage Room							