FULL Name: _	 DUE Date:

## **Exploring Mechanical Systems**

Your goal is to learn everything you can about how mechanical systems work. In groups, you will become experts and will be responsible for learning a component of mechanical systems and teaching it to the rest of team.

## Task:

- 1. One of the mechanical systems below will be assigned to your group to research.
- 2. Your researched system must be written on the poster paper provided.
- 3. You are responsible for planning and teaching a lesson to the rest of the team on your mechanical system with a working model.
- 4. The lesson should be no more than 15 min in length.

Mechanical Systems:		
□ Pulley	□ 3rd class lever	□ Technical Manuals
□ Wedge	□ Ergonomics	<ul><li>Inclined Plane</li></ul>
□ 1st class lever	<ul> <li>Wheel and axle</li> </ul>	<ul><li>Hydraulics</li></ul>
□ 2nd class lever	□ Gears	□ Pneumatic

\*Use the following checklist to help you prepare for your lesson. Remember that the rest of the team has not researched your mechanical system. Therefore all necessary information must be present to ensure a successful lesson.

Try to be creative by involving the class, using the overhead or blackboard, providing handouts, asking for volunteers, creating a quiz for understanding, planning a learning activity, etc ...

Check off when Completed √	Presentation Checklist
	<b>Definition</b> of mechanical system
	Diagram of mechanical system
	Working <b>model</b> of mechanical system
	Step by step explanation of how system works
	Examples of mechanical systems (real life examples)
	Examples of <b>calculations</b> of Force, Work, Mechanical Advantage. Mechanical Efficiency

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## Learning All About Mechanical Efficiency

Name of YOUR Mechanical System	
Definition of Mechanical System	
Diagram of Mechanical System	
Description of How it Works	
Real Life Examples	
Calculations  Force  Work  Mechanical Advantage  Mechanical Efficiency	
Name of Mechanical System	
Definition of Mechanical System	
Diagram of Mechanical System	
Description of How it Works	
Real Life Examples	

FULL Name:	DUE Date:
Name of	
Mechanical System	
Definition of Mechanical System	
Diagram of Mechanical System	
Description of How it Works	
Real Life Examples	
Name of Mechanical System	
Definition of Mechanical System	
Diagram of Mechanical System	
Description of How it Works	
Real Life Examples	