## **BOY SCOUT NOVA AWARD - WHOOSH! (ENGINEERING)**

Additional checkoff sheets and helps are available from <u>ScouterMom.com</u>.

I								
	J	J	J	J	J	J	J	J

				1	
This module is designed to help you explore how engineering affects your life each day.					
3B. Be able to tell your counselor the name of each machine and how each machine works.					
3C. Discuss the following with your counselor:					
3C-1. The simple machines that were involved with the motion in your chosen merit badge (Hint: Look at the moving parts of an engine to find simple machines.)					
3C-2. The energy source causing the motion for the subject of your merit badge					
3C-3. What you learned about motion from earning your merit badge					
4. Choose A or B and complete ALL the requirements.					
4A. Visit an amusement park. Then discuss the following with your counselor:					
4A-1. The simple machines present in at least two of the rides					
4A-2. The forces involved in the motion of any two rides					
4B. Visit a playground. Then discuss the following with your counselor:					
4B-1. The simple machines present in the playground equipment					
4B-2. The forces involved in the motion of any two playground fixtures					
5. Do the following:					
5A. On your own, design one of the following and include a drawing or sketch: an amusement park ride OR a playground fixture OR a method of transportation.					
5B. Discuss with your counselor:					
5B-1. The simple machines present in your design					
5B-2. The energy source powering the motion of your creation					
6. Discuss with your counselor how engineering affects your everyday life.					
Completed					
Presented					$\neg$
			 	•	 —