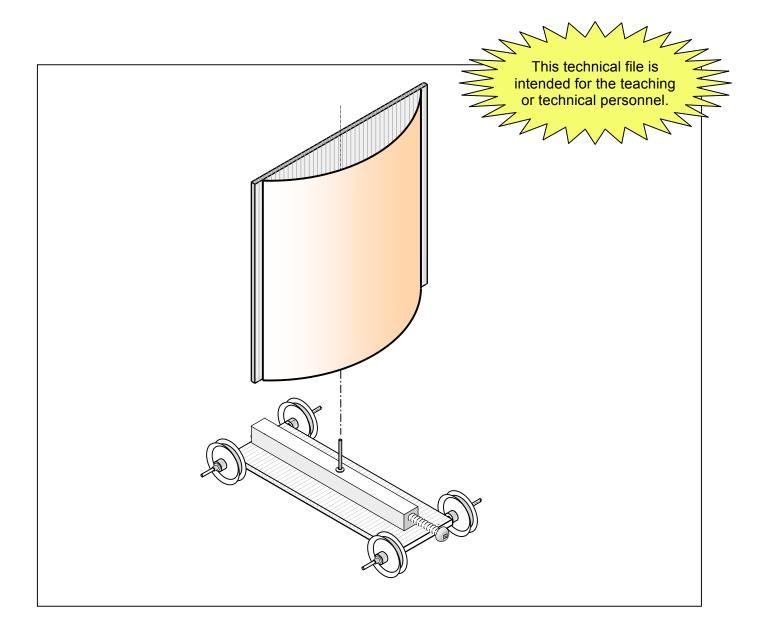


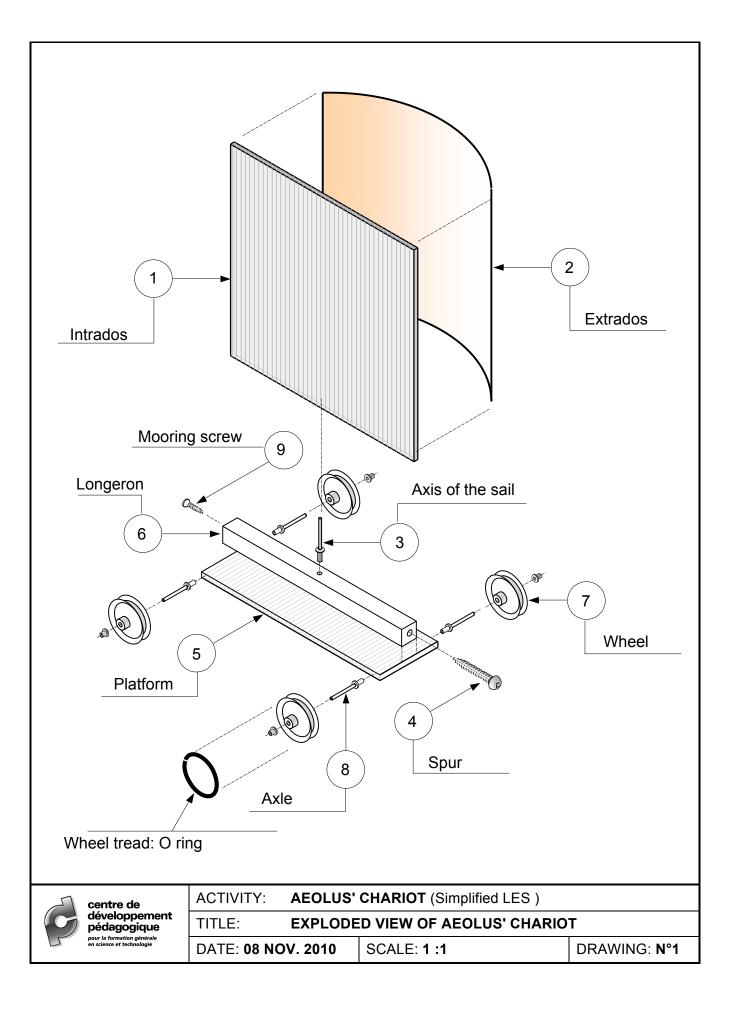


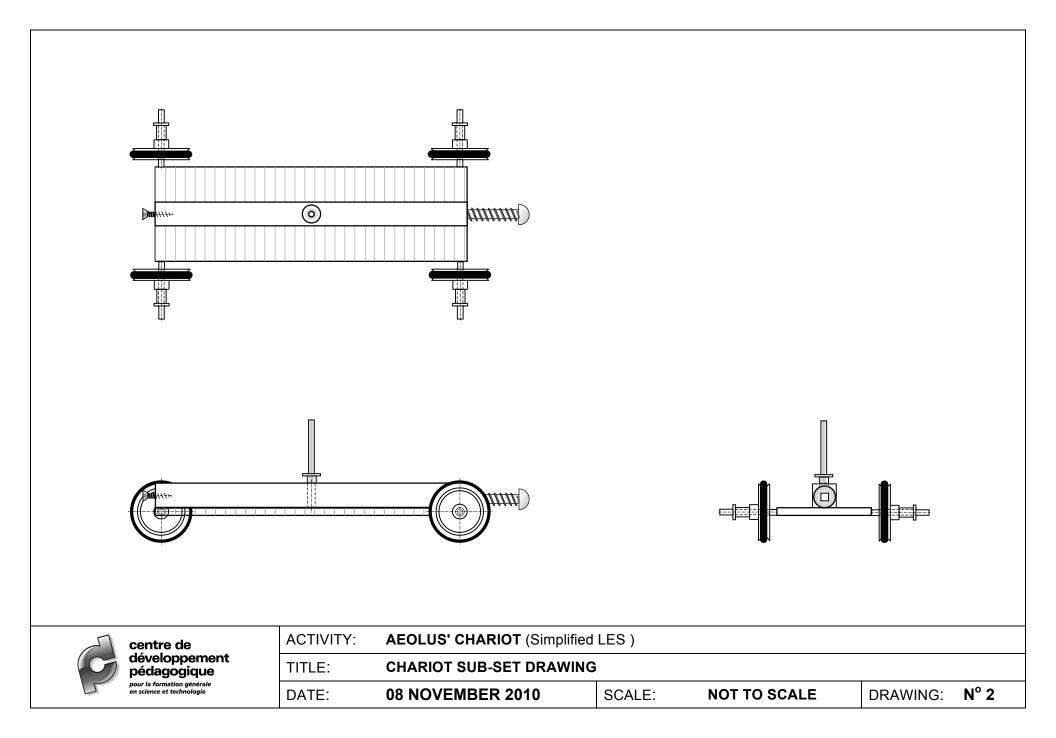
## **TECHNICAL FILE FOR AEOLUS' CHARIOT**

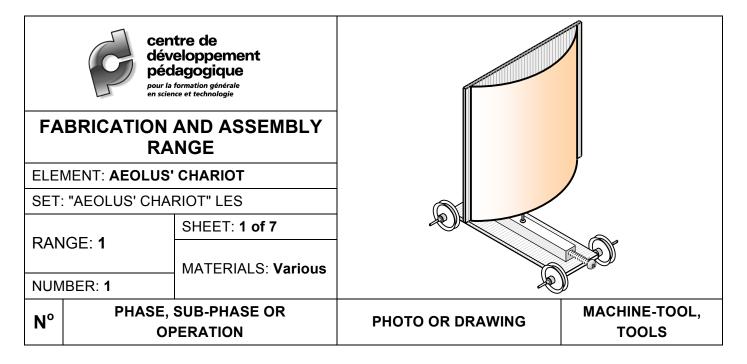


## AEOLUS' CHARIOT (simplified LES)

January 2012



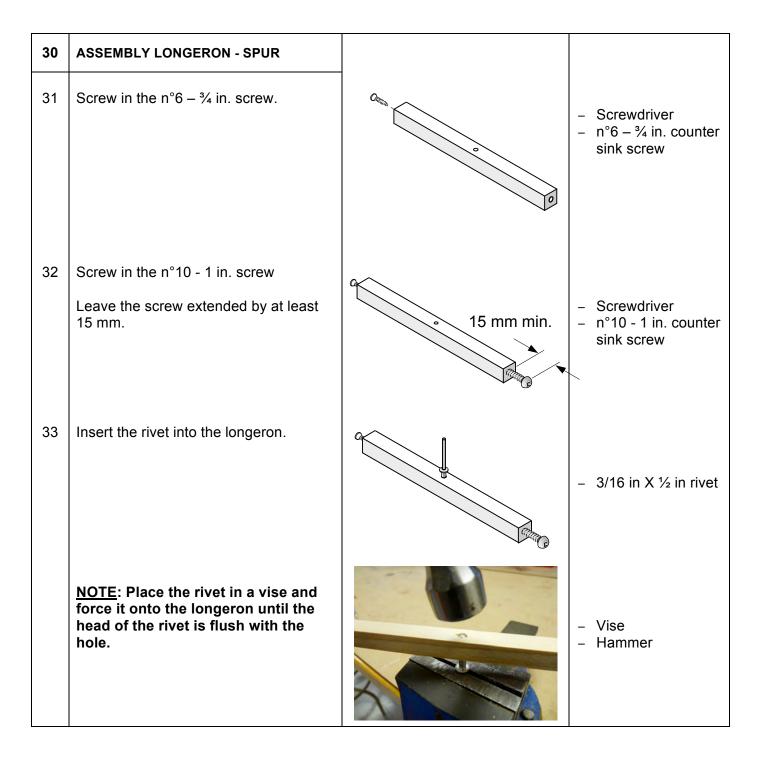




10	PLATFORM		
11	In a 4 mm thick piece of "Coroplast", cut out a 50 mm X 165 mm piece as shown. <u>NOTE</u> : Ensure that the fluting is parallel to the width of the part.		<ul> <li>Pencil</li> <li>Ruler</li> <li>Utility knife</li> <li>Safety ruler</li> </ul>
20	LONGERON		
21	Using a mitre box, cut a 165 mm length in a 12.5 mm x 12.5 mm section of a pine strip.	165	<ul> <li>Pencil</li> <li>Ruler</li> <li>Mitre box</li> <li>Hand saw</li> </ul>
22	Mark and punch the center of the holes at each end, as well as in the middle of the longeron.	X	<ul> <li>Pencil</li> <li>Ruler</li> <li>Punch</li> <li>Hammer</li> </ul>

FABRICATION AND ASSEMBLY RANGE OF THE CHARIOT			SHEET: 2 of 7
N°	PHASE, SUB-PHASE OR OPERATION	PHOTO OR DRAWING	MACHINE-TOOL, TOOLS
23	Place the longeron in a drill vise and drill the 5 mm (3/16 in) diameter hole.		<ul> <li>Drill</li> <li>5 mm (3/16") Ø bit</li> <li>Drill vise</li> </ul>
24	Pilot-hole a 3.5 mm (9/64") diameter hole, 10 mm deep in one of the extremities. This hole will hold the spur (n° 10 - 1" screw).		<ul> <li>Drill</li> <li>3.5 mm (9/64") Ø</li> <li>bit</li> <li>Drill vise</li> </ul>
25	Pilot-hole a 2 mm (5/64") diameter hole, in the other extremity, to hold the n°6 - 3/4" screw.		– Drill – 2 mm (5/64'') Ø bit

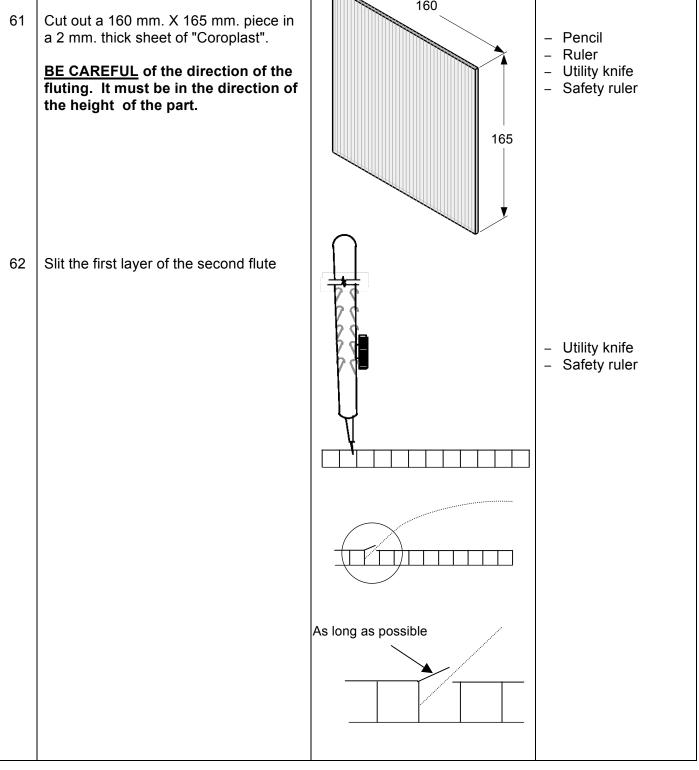
FABRICATION AND ASSEMBLY RANGE OF THE CHARIOT			SHEET: 3 of 7
N°	PHASE, SUB-PHASE OR OPERATION	PHOTO OR DRAWING	MACHINE-TOOL, TOOLS



	FABRICATION AND ASSEMBLY RANGE OF THE CHARIOT		SHEET: 4 of 7	
N	۱°	PHASE, SUB-PHASE OR OPERATION	PHOTO OR DRAWING	MACHINE-TOOL, TOOLS

40	ASSEMBLY PLATFORM - LONGERON		
41	Using a hot glue gun, affix the longeron to the platform, taking care to center it.		<ul> <li>Pencil</li> <li>Ruler</li> <li>Hot glue gun</li> </ul>
50	WHEELS		
51	Insert a 3/16 X ½" rivet in a 30 mm Ø plastic pulley, holding it with a plastic reducer tip. <u>Note</u> : You may need to crimp the tip so that it holds the wheel adequately in place. Repeat this operation 4 times.		<ul> <li>3/16 x ½ in. rivets</li> <li>Reducer tips (available with gear sets)</li> <li>Electrician's pliers</li> </ul>
52	NOTE: The pulley will be free to rotate and the rivet head will serve as the wheel axle. Place the wheels in the fluting of the "Coroplast" and check that the vehicle moves freely. NOTE: See drawing N°2 for wheel positioning.		- Drawing N° 2
53	Add an O-ring to each of the wheels.	0	<ul> <li>24 mm x 32 mm x 4 mm O-rings</li> </ul>

FABRICATION AND ASSEMBLY RANGE OF THE CHARIOT		SHEET: 5 of 7	
N°	PHASE, SUB-PHASE OR OPERATION	PHOTO OR DRAWING	MACHINE-TOOL, TOOLS
60	SAIL (INTRADOS)		
61	Cut out a 160 mm. X 165 mm. piece in a 2 mm. thick sheet of "Coroplast".	160	- Pencil
	BE CAREFUL of the direction of the fluting. It must be in the direction of		<ul> <li>Ruler</li> <li>Utility knife</li> <li>Safety ruler</li> </ul>



	FABRICATION AND ASSEMBLY RA	NGE OF THE CHARIOT	SHEET: 6 of 7
N°	PHASE, SUB-PHASE OR OPERATION	PHOTO OR DRAWING	MACHINE-TOOL, TOOLS
63	Repeat the operation at the other end.		<ul><li>Utility knife</li><li>Safety ruler</li></ul>
70	SAIL (EXTRADOS) Cut a 165 mm X 165 mm piece in a 0.5 mm thick vinyl.		<ul> <li>Pencil</li> <li>Ruler</li> <li>Utility knife</li> <li>Safety ruler</li> </ul>
80	ASSEMBLING THE SAIL		
81	Gently insert the vinyl (extrados) into the two slits in the "Coroplast" (intrados) and slowly slide it up.		

	FABRICATION AND ASSEMBLY RANGE OF THE CHARIOT		SHEET: 7 of 7
N°	PHASE, SUB-PHASE OR OPERATION	PHOTO OR DRAWING	MACHINE-TOOL, TOOLS
82	Solidify the extrados with a drop of hot glue at each corner. <u>NOTE</u> : It is possible to use adhesive tape to affix the extrados to the intrados.		<ul> <li>Hot glue gun</li> </ul>
90	ASSEMBLY SAIL - CHARIOT		
91	Mark the middle of the sail and insert it onto the rivet (sail axle).		- Pencil