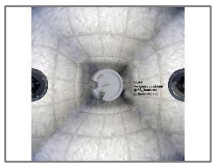
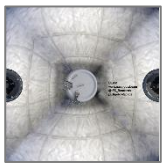
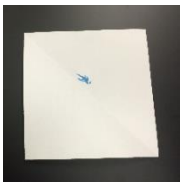
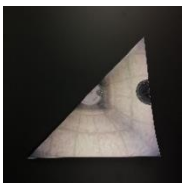
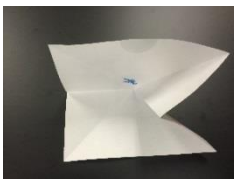
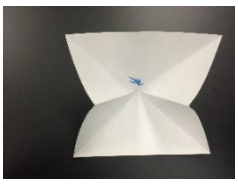
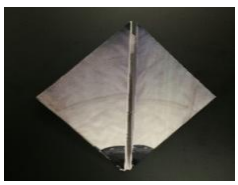
GROUND CREW PROCEDURES FOR ASSEMBLING THE BIGELOW EXPANDABLE ACTIVITY MODULE (BEAM)
**** A TECHNOLOGY DEMONSTRATION FOR THE INTERNATIONAL SPACE STATION (ISS) ****
LEARN MORE ABOUT BEAM: WWW.NASA.GOV/BEAM

STEP	PROCEDURAL INSTRUCTION	ASSISTIVE ILLUSTRATION
1.0 – **1.1**	Download and print origaBEAMi file using 2-sided printing onto either 8.5" x 11" paper or 11 x 17 paper, depending on your preference and your printer's capability. Crew member should be centered on opposite side of BEAM outside print. Trim off excess white border around BEAM image so that you have a square and there is no white showing around BEAM. The BEAM-skin side is outside/top, and crew member is inside/bottom, and ought to be centered on the flip side.	 (front and back)  (front and back)
2.0 – **2.1**	Place paper BEAM-side down, crewmember-side up. Fold the paper from one corner (vertex) to the opposite. Flatten and smooth out folded creases.	
3.0 – **3.1**	Unfold, turn a quarter to the right and repeat with the other two corners. Flatten and smooth out folded creases. Unfold back to flat position, BEAM-side down, crewmember-side up.	
4.0	Fold paper down in half straight (instead of diagonal) so it forms a rectangle. One edge will sit on top of the other edge.	
5.0	Between top two corners, fold center inward so paper forms a triangle on each side. Inside this triangle are the folded-in center points. **WARNING** A. Step 5.0 is a little tricky. B. Avoid paper cuts but do not use space gloves.	 
6.0 – **6.1**	Fold up bottom two corners of triangle to the top point of the triangle so the paper forms a diamond-like shape. Flatten and smooth out. Flip over. Repeat on other side. Flatten and smooth out. **CAUTION** Fold with precision and accuracy or risk a leak in your habitation module. Safety first.	 

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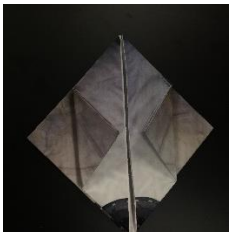
STEP	PROCEDURAL INSTRUCTION	ILLUSTRATION
7.0 -- **7.1**	With split down middle of paper, take outer two corners of diamond and fold inward toward center line-split. Flatten and smooth out. Flip over. Repeat above step on other side. Flatten and smooth out.	
8.0 -- **8.1**	Fold down the two little tabs at the top on each end (left and right), but not overlapping center split. Flatten and smooth. Flip over. Repeat steps on other side. Flatten and smooth. NOTE You are nearly finished with this origaBEAMi Project. Be sure to complete with enthusiasm.	
9.0 -- **9.1** -- **9.2**	Slip finger into each open slot (left and right) to open and widen slightly. Fold or curl each free corner/vertex into its open slot; should fit into triangle compartment just right. Press down and flatten folded tucked-in flaps to smooth out.	
10.0 – **10.1**	Pick up, hold with each hand's fingers gently gripping each side. Unfold with open spout (a.k.a. docking port/hatch) facing you, gently grasp all four folded sides.	
11.0 -- **11.1** -- **11.2**	Place open spout against lips and blow a good firm puff of air inside to expand the BEAM module. Look inside the open spout to ensure your crewmember is inhabiting the module safely in microgravity. Your BEAM is activated and ready for operation! CONGRATULATIONS – MISSION SUCCESS!	

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