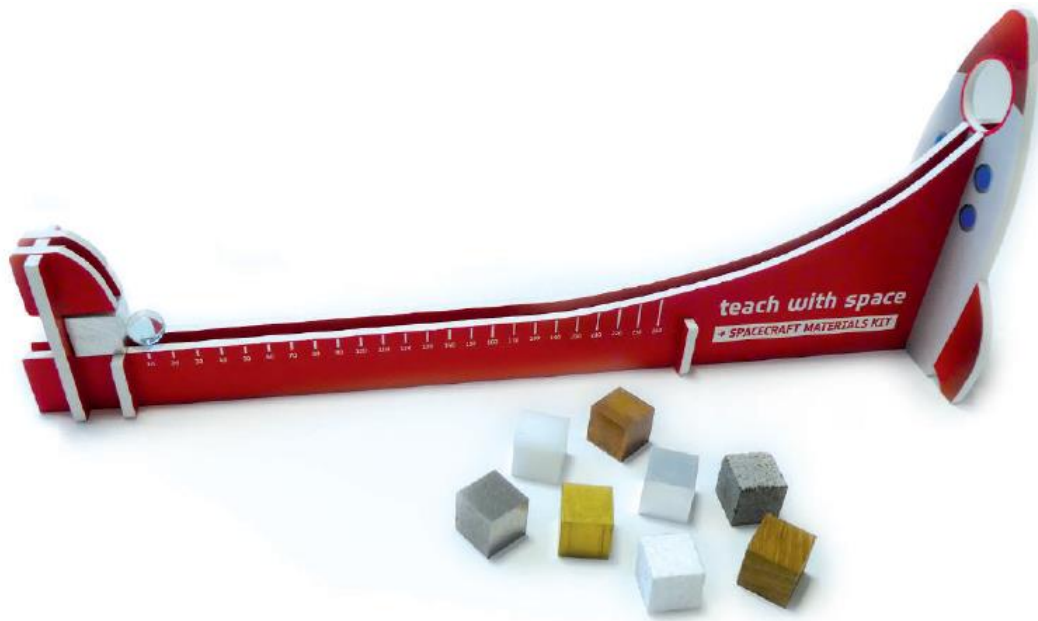


Name: _____ Group: _____

CRASH TEST

Spacecraft as artificial satellites can crash against space junk fragments, which travel at a high speed. For this reason we must use materials capable to resist strong impacts.



We will use a special ramp for measure the rebound that a marble experiences after hitting the test material.

Each material must be tested three times. The arithmetic average will be the result.

MATERIAL	N°	Rebound (mm)			Arithmetic average (mm)
		A	B	C	
 Copper	1				
 Aluminum	2				
 Brass	3				
 Steel	4				
 Wood	5				
 Stone	6				
 Plastic	7				
 Polystyrene	8				
 Aluminum alloy 6061	9				

CRASH TEST CONCLUSIONS

Choose the best material for the Spacecraft investigation and give some reasons for you choice.
