



# Arctic Impact

## Asteroid Impact Data Sheet #1

Table #1 Ice Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1	1000	45	30	
2	2000	↓	↓	
3	3000			
4	4000			
5	5000			

Table #2 Porous Rock Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1		45	30	
2		↓	↓	
3				
4				
5				

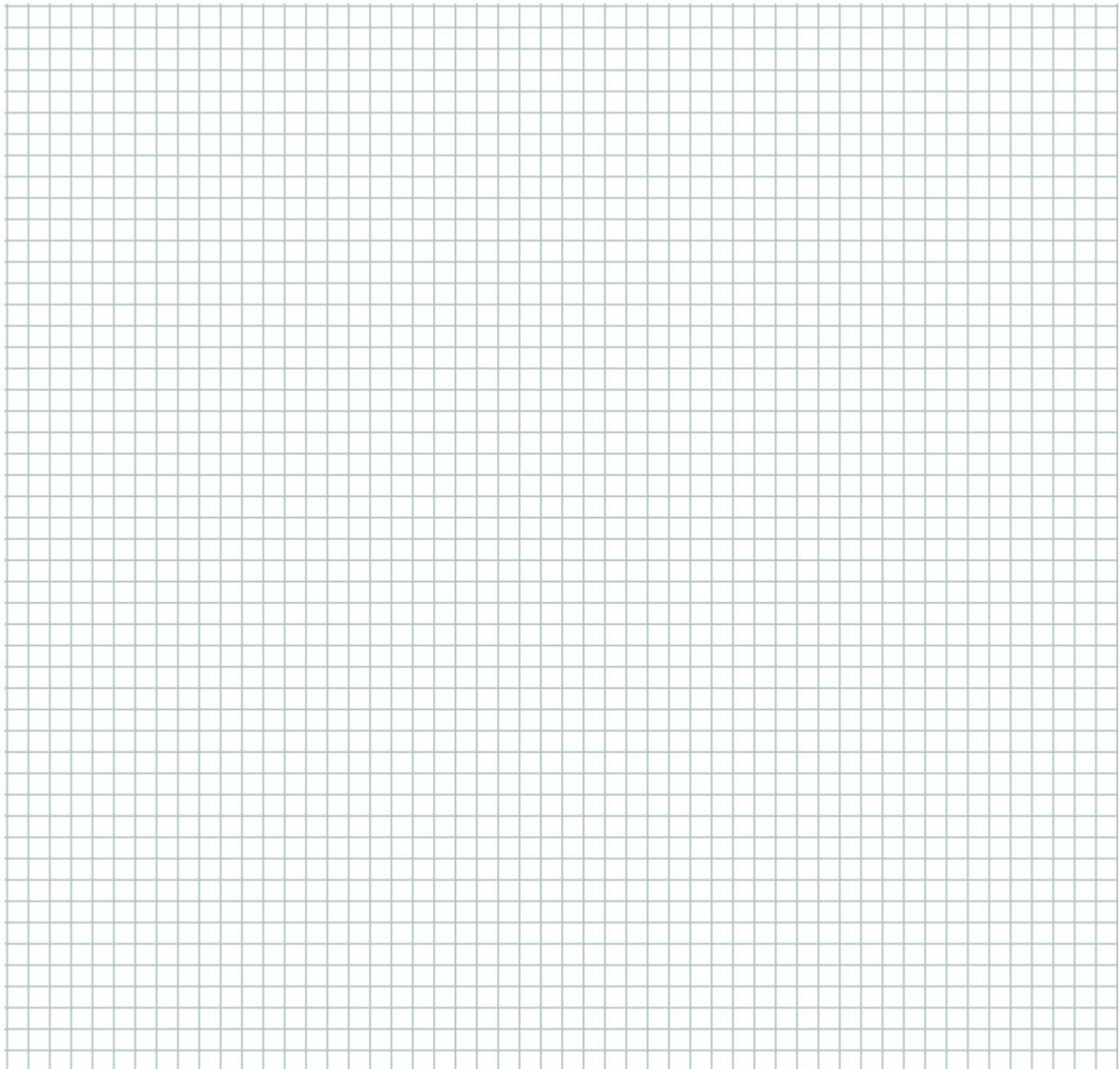
Table #3 Dense Rock Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1		45	30	
2		↓	↓	
3				
4				
5				

Table #4 Iron Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1		45	30	
2				
3				
4				
5				

**Crater Diameter vs. Asteroid Size**





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## Asteroid Impact Data Sheet #2

Table #1 Ice Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1	1000	1	30	
2	↓	25	↓	
3		45		
4		65		
5		90		

Table #2 Porous Rock Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1	1000		30	
2	↓		↓	
3				
4				
5				

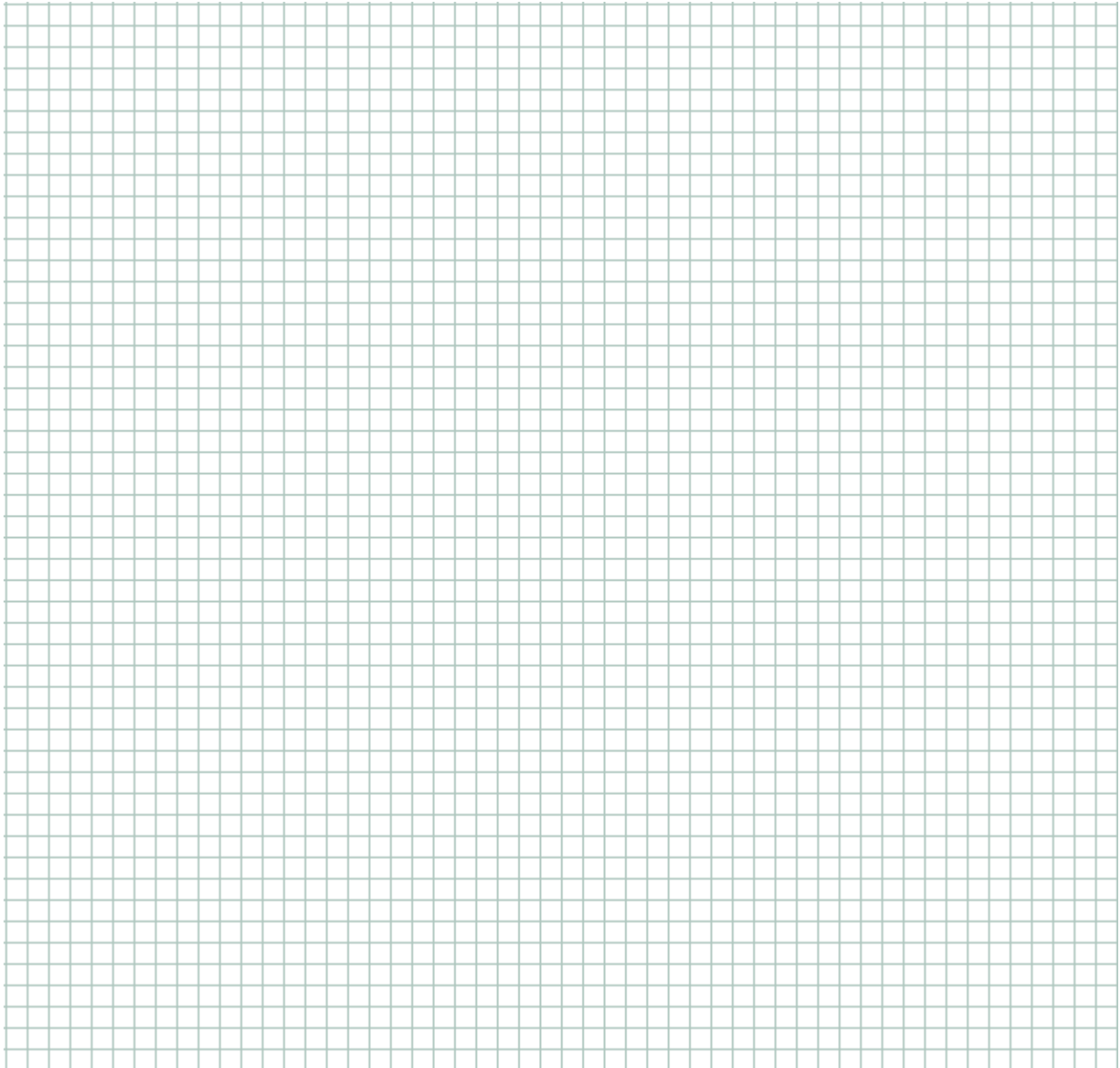
Table #3 Dense Rock Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1	1000		30	
2	↓		↓	
3				
4				
5				

Table #4 Iron Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1	1000		30	
2				
3				
4				
5				

**Crater Diameter vs. Trajectory Angle**





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## Asteroid Impact Data Sheet #3

Table #1 Ice Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1	1000	45	10	
2	↓	↓	20	
3			30	
4			40	
5			50	

Table #2 Porous Rock Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1	1000	45		
2	↓	↓		
3				
4				
5				

Table #3 Dense Rock Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1	1000	45		
2	↓	↓		
3				
4				
5				

Table #4 Iron Asteroid

Trial #	Asteroid Diameter (m)	Trajectory Angle (°)	Object Velocity (km/s)	Crater Diameter (m)
1	1000	45		
2				
3				
4				
5				

**Crater Diameter vs. Object Velocity**

