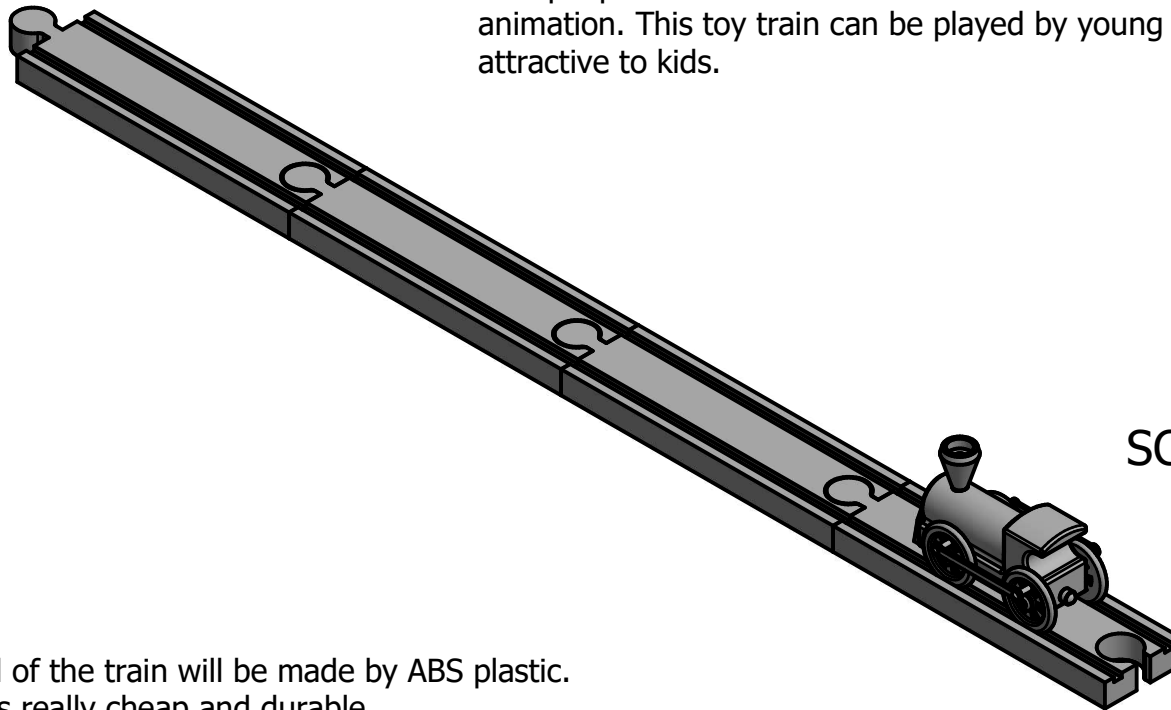


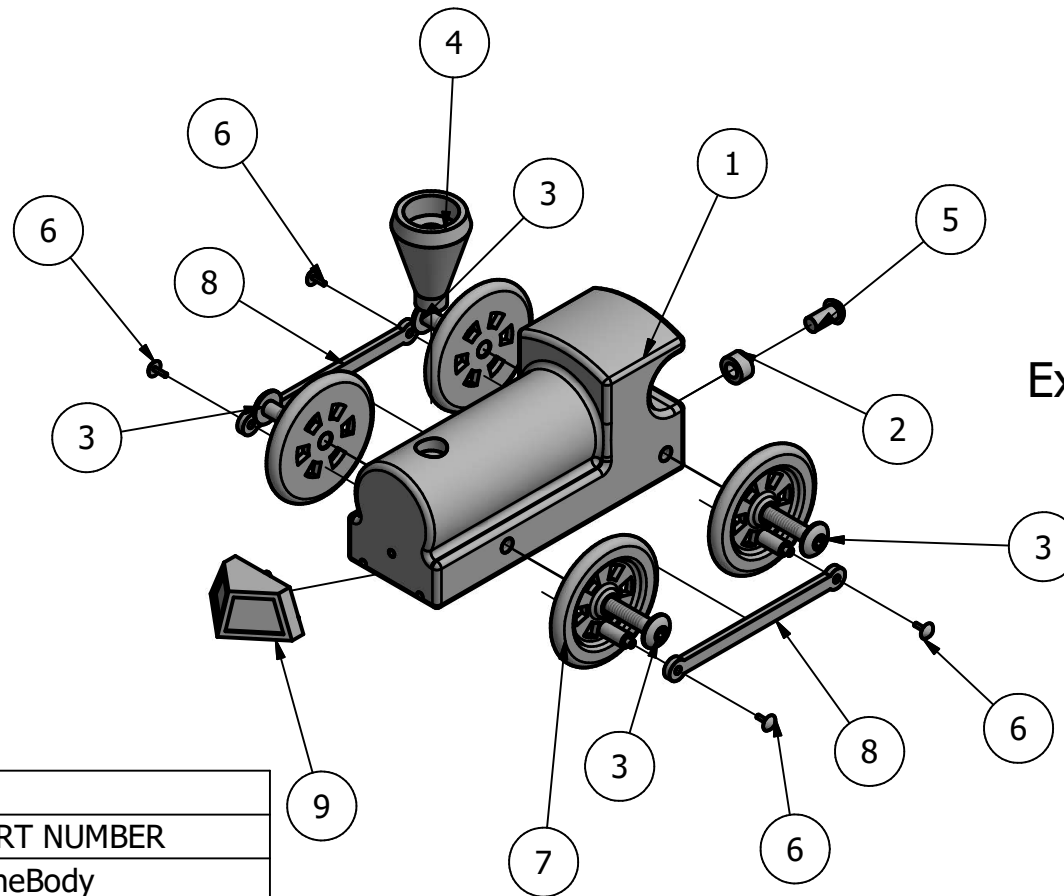
For this project, we are making a toy train model, which is assembled with multiple parts. This train is able to round on the track, presenting by the animation. This toy train can be played by young children because it is attractive to kids.



Isometric
SCALE Scale1/6

The material of the train will be made by ABS plastic. ABS plastic is really cheap and durable, it is the best material to build the toy train, considering the price and the quality.

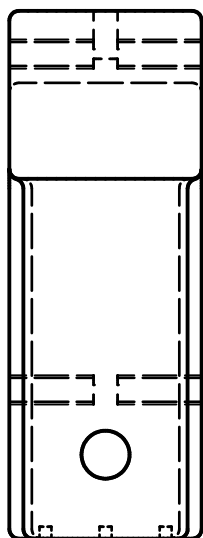
Dublin High School Engineering & Design Academy	SHEET NAME: Sell		SHEET 1 OF 12
	AUTHOR: Titus Sun	DATE: 2/6/2018	IED7
E:\IED7_Sun\IED7_ToyTrain\Sun_TrainOnStraightTrack.iam			



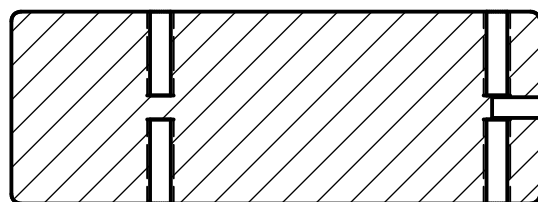
Exploded View
SCALE 1:3

PARTS LIST

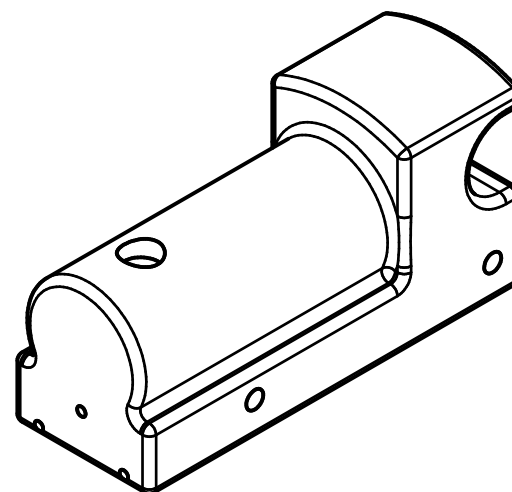
ITEM	QTY	PART NUMBER
1	1	Sun_EngineBody
2	1	HitchMagnet
3	4	Sun_AxlePeg
4	1	Sun_Stack
5	1	HitchPeg
6	4	Linkage Peg
7	4	Sun_wheel
8	2	Sun_LinkageArm
9	1	Sun_CowCatcher



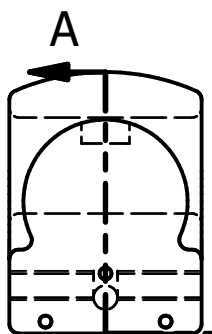
Top View
SCALE 1/2



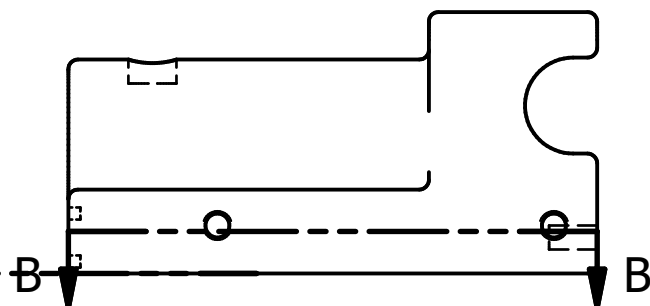
SECTION B-B
SCALE 1 / 2



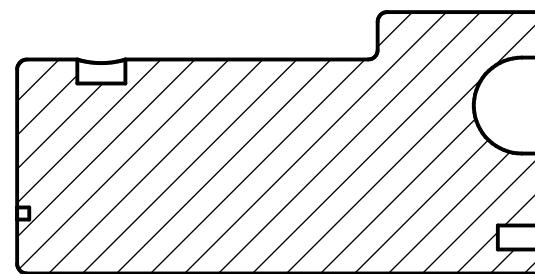
Isometric View
SCALE 1/2



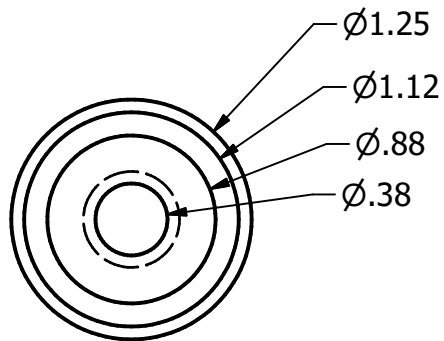
Front View
SCALE 1/2



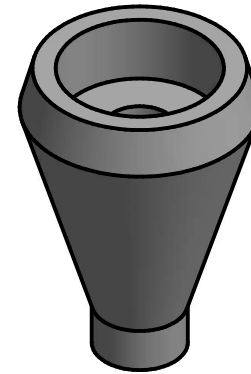
Right View
SCALE 1/2



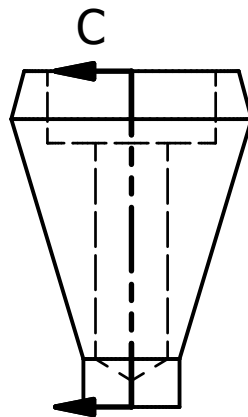
SECTION A-A
SCALE 1 / 2



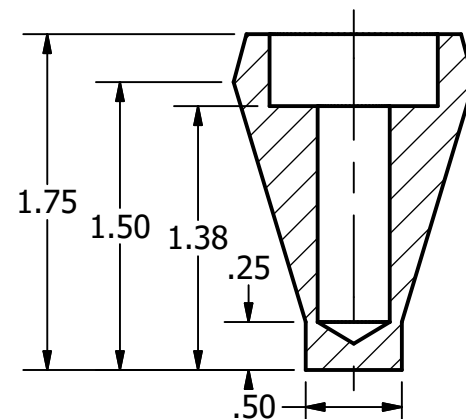
Top View
SCALE 1:1



Isometric View
SCALE 1:1

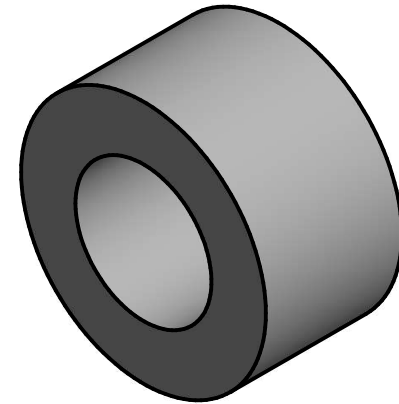


Front View
SCALE 1:1

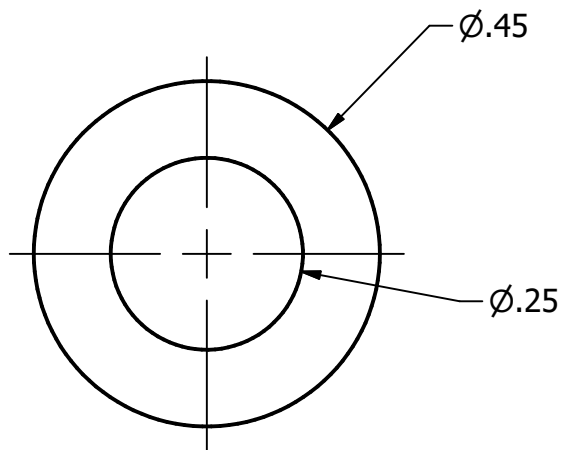


SECTION C-C
SCALE 1 : 1

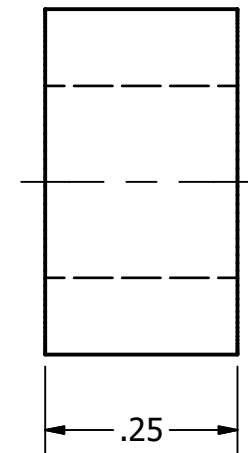
Dublin High School Engineering & Design Academy	SHEET NAME: Stack	SHEET 4 OF 12
	AUTHOR: Titus Sun	DATE: 2/6/2018
	E:\IED7_Sun\IED7_ToyTrain\Sun_Stack.ipt	



Isometric View
SCALE 4:1

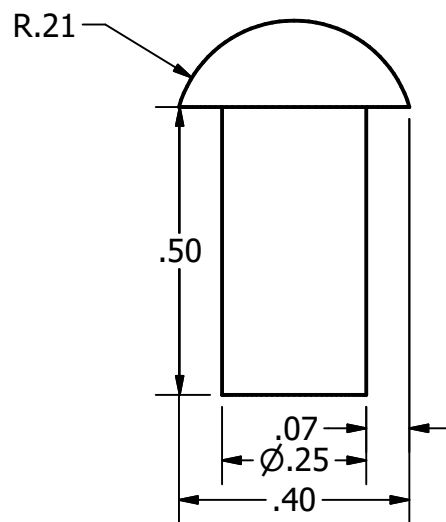


Front View
SCALE 4:1

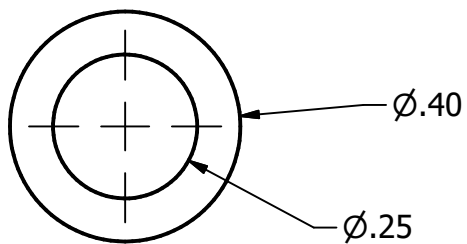


Right View
SCALE 4 : 1

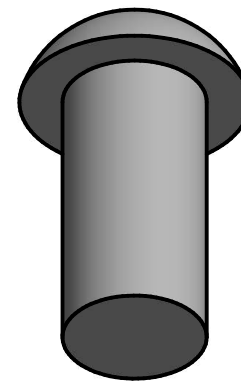
Dublin High School Engineering & Design Academy	SHEET NAME: Hitch Magnet	SHEET 5 OF 12
	AUTHOR: Titus Sun	DATE: 2/6/2018
	E:\IED7_SunT\IED7_ToyTrain\HitchMagnet.ipt	
		IED7



Top View
SCALE 3:1

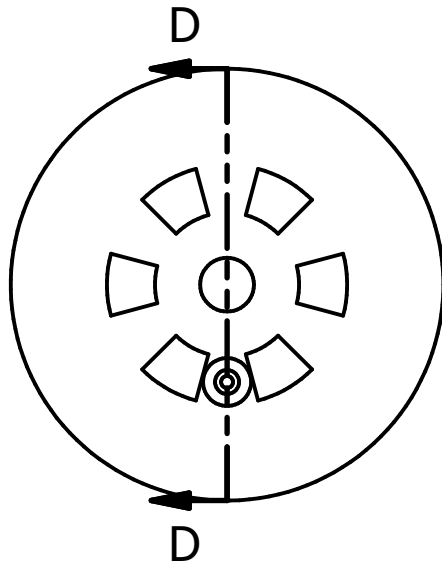


Front View
SCALE 3:1

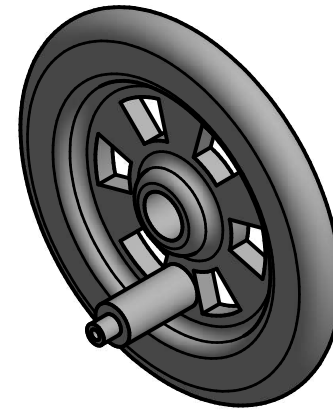


Isometric
SCALE 3:1

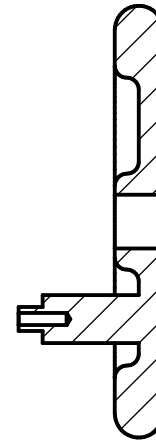
Dublin High School Engineering & Design Academy	SHEET NAME: Hitch Peg	SHEET 6 OF 12
	AUTHOR: Titus Sun	DATE: 2/6/2018
	E:\IED7_SunT\IED7_ToyTrain\HitchPeg.ipt	
		IED7



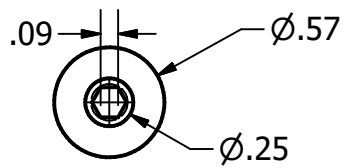
Front View
SCALE 1:1



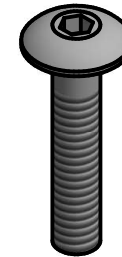
Isometric View
SCALE 1:1



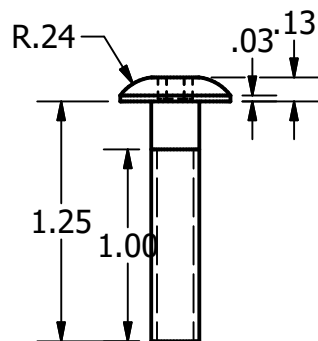
SECTION D-D
SCALE 1 : 1



Top View
SCALE 1:1

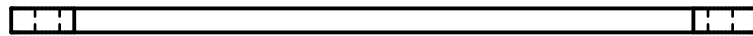


Isometric View
SCALE 1:1

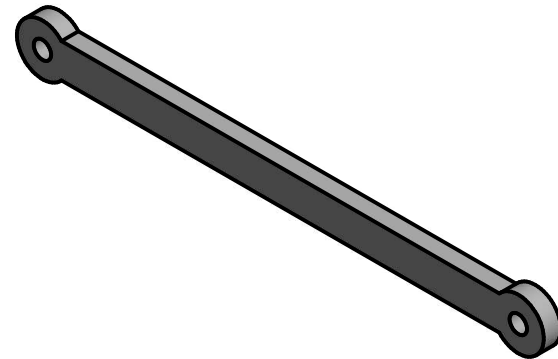


Front View
SCALE 1:1

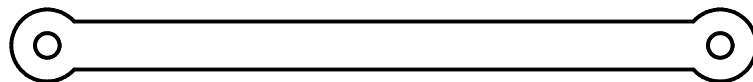
Dublin High School Engineering & Design Academy	SHEET NAME: Axle Peg	SHEET 8 OF 12
	AUTHOR: Titus Sun	DATE: 2/6/2018
	E:\IED7_Sun\IED7_ToyTrain\Sun_AxlePeg.ipt	
		IED7



Top View
SCALE 1:1



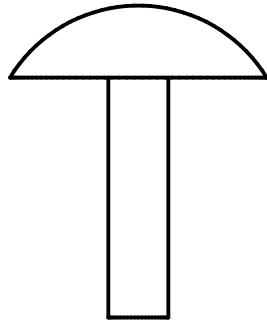
Isometric View
SCALE 1:1



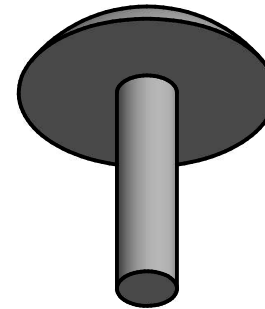
Front View
SCALE 1:1



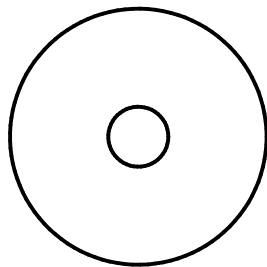
Right View
SCALE 1:1



Top View
SCALE 5:1

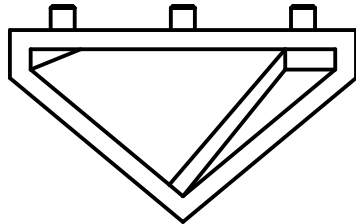


Isometric View
SCALE 5:1

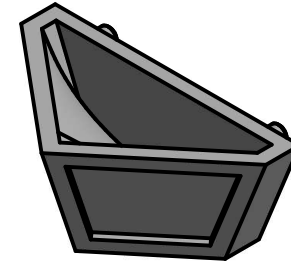


Front View
SCALE 5:1

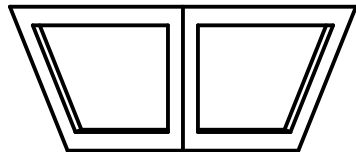
Dublin High School Engineering & Design Academy	SHEET NAME: Linkage Peg	SHEET 10 OF 12
	AUTHOR: Titus Sun	DATE: 2/6/2018
		IED7
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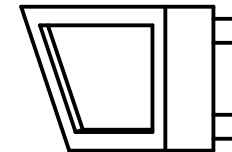
Top View
SCALE 3:2



Isometric View
SCALE 3:2

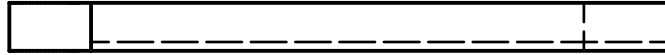


Front View
SCALE 3:2

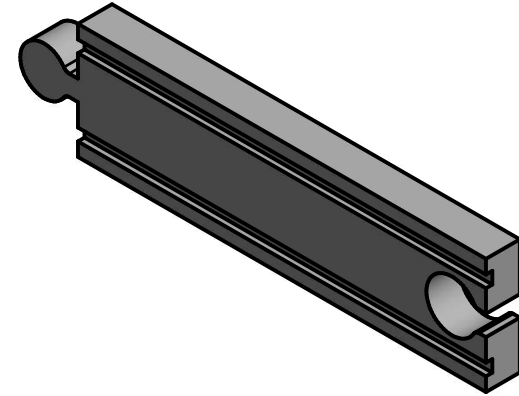


Right View
SCALE 3:2

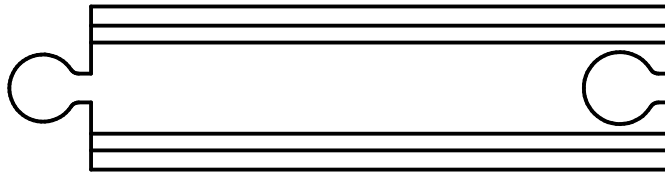
Dublin High School Engineering & Design Academy	SHEET NAME: CowCatcher		SHEET 11 OF 12
	AUTHOR: Titus Sun	DATE: 2/6/2018	IED7
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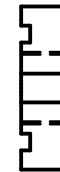
Top View
SCALE 1:4



Isometric View
SCALE 1/4



Front View
SCALE 1/4



Right View
SCALE 1/4