

Name \_\_\_\_\_

## Puzzle Cube Digital Portfolio Rubric Sheet

Title Page (Picture, Title, Name, Class, Click Here to Enter)	5	4	3	2	1	0
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Table of Contents (Part Names, Spelling, Hyperlink Pages, Page Numbers, Hyperlink Title Page, Order)	5	4	3	2	1	0
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### Brainstorming Notes

Solution 1					1	0
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Solution 2					1	0
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Decision Matrix					1	0
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Isometric Sketches in Paint					1	0
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Orthographic Sketches in Paint					1	0
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### Working Drawings

Ortho's of Each Part	5	4	3	2	1	0
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Exploded Drawing					1	0
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Assembly Drawing					1	0
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### Presentation Design

Creativity (Pgs Labeled, Pictures Cropped, Dwg Scale, Hyperlink Spelling)	4	3	2	1	0
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Slide Transition lock					1	0
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<b>Total Grade</b>						<b>/27</b>
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## Puzzle Cube Inventor Rubric Sheet

Detailed Annotated Sketches (Sol. 1, Sol. 2, Dec. Matrix, Iso Sk, Ortho Sk)	5	4	3	2	1	0
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Creation of Parts in Inventor (Drawn to Scale, Named Correctly)	5	4	3	2	1	0
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Orthographic Drawings (Dwg's, Top, Front, RS, Iso, Rename Sheets)	5	4	3	2	1	0
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Dimensions (Fully Dimensioned, Placement, Text Size, Leader Lines)	5	4	3	2	1	0
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Visual Design Elements (Does this match Parts)					1	0
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Exploded View (Balloons, Parts List, Placement, Text Height, Description)	5	4	3	2	1	0
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Assembly Drawing (Ortho's, Shaded Iso, Overall Dims)			3	2	1	0
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Assembly File (IAM Fully Constrained)	5	4	3	2	1	0
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Titleblock Information (Name, Title, Scale, Text Size, All Caps)	5	4	3	2	1	0
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Dwg Layout Design (Views Labeled, Scale, Shaded,)			3	2	1	0
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Properly Filed (Puzzle Cube Folder)					1	0
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<b>Total Grade</b>						<b>/43</b>
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All drawings should be in one file, different sheets, rename sheets.

Do not dimension to isometric view.

Balloon Extensions should NOT be horizontal/vertical.

Name and Title should fill up space in titleblock.

Name: \_\_\_\_\_

### Puzzle Construction Rubric

Aesthetics (Appearance)	5	4	3	2	1	0
5 Parts (All Different)	5	4	3	2	1	0
Min/Max (Minimum 4, Maximum 6)	5	4	3	2	1	0
Interlocking	5	4	3	2	1	0
Workmanship (Overall Construction Quality)	5	4	3	2	1	0

**Total** /25  
**Grade** \_\_\_\_\_

### Puzzle Package Rubric

Cereal BOX (Brought Your Own Box)					1	0
Development (Pattern Layout)					1	0
Tabs and Flaps (All Sides Protected, Size)	4	3	2	1	0	0
Size					1	0
Printed Information (Name, Title, Marketing Design)	4	3	2	1	0	0
Package Construction (Overall Construction Quality)	4	3	2	1	0	0

**Total** /15  
**Grade** \_\_\_\_\_

### Cube Construction

- Be neat
- Use good workmanship
- Color your parts fully after they are glued

### Cube Package

- Be neat
- Be creative
- Advertise your cube
- Box too big
- Box too small

Name \_\_\_\_\_

## Hole Example Rubric Sheet

Holes Drawn to Correct Size (Including Thread Length)	5	4	3	2	1	0
Part Drawn to Correct Size				2	1	0
Tread Notes/Callouts (Text Size, Leaders, Placement)		4	3	2	1	0
Top View (Section Cutting Plane)					1	0
Section View (Projected from Cutting Plane)				2	1	0
Dimensions (Fully Dimension)	5	4	3	2	1	0
Isometric View (Projected from Section View, 1/2 Scale, Shaded)				2	1	0
Hole Table (Top Right Corner, Text Size, Table Size)				2	1	0
Titleblock Information (Name, Title, All Caps, Size)				2	1	0
<b>Total</b>						<b>/25</b>
<b>Grade</b>						_____

Holes located incorrectly.

Thread Depths are incorrect, should be full depth.

Top view should show cutting plane.

Tread Notes Leaders should not be vertical or horizontal.

Tread Notes Leaders should point to the center of hole.

Tread Notes should not cross any other dimensions or text.

Tread Notes text incorrect size.

Isometric View should be projected from the section view.

Isometric View should be 1/2 scale.

Isometric View should have shaded on.

Hole Table too small/too big.

Hole Table text incorrect size

Not fully dimensioned

Dimension text incorrect size

Title should include your name and the part name (Hole Example), all caps.

Name \_\_\_\_\_

### Miniature Train Digital Portfolio Rubric Sheet

<u>Title Page</u> (Picture, Title, Name, Class, Click Here to Enter)	5	4	3	2	1	0
<u>Table of Contents</u> (Part Names, Spelling, Hyperlink Pages, Page Numbers, Hyperlink Title Page, Order)	5	4	3	2	1	0
<b>Working Drawings</b>						
Ortho's of Each Part	5	4	3	2	1	0
<u>Exploded Drawing</u> (with Track)					1	0
<u>Assembly Drawing</u> (with Track)					1	0
<b>Presentation Design</b>						
<u>Creativity</u> (Pgs Labeled, Pictures Cropped, Dwg Scale, Hyperlink Spelling)	4	3	2	1	1	0
<u>Slide Transition lock</u>					1	0
<b>Total</b>						<b>/22</b>
<b>Grade</b>						_____

### Miniature Train Inventor Rubric Sheet

<u>Creation of Parts in Inventor</u> (Drawn to Scale, Named Correctly)	5	4	3	2	1	0
<u>Orthographic Drawings</u> (Dwg's, Top, Front, RS, Iso, Rename Sheets)	5	4	3	2	1	0
<u>Dimensions</u> (Fully Dimensioned, Placement, Text Size, Leader Lines)	5	4	3	2	1	0
<u>Visual Design Elements</u> (Color Theme)					1	0
<u>Exploded View w/Track</u> (Balloons, Parts List, Placement, Text Height, Description)	5	4	3	2	1	0
<u>Assembly Drawing w/Track</u> (Ortho's, Shaded Iso, Overall Dims)			3	2	1	0
<u>Assembly File</u> (IAM Fully Constrained)	5	4	3	2	1	0
<u>Titleblock Information</u> (Name, Title, Scale, Text Size, All Caps)	5	4	3	2	1	0
<u>Dwg Layout Design</u> (Views Labeled, Scale, Shaded,)			3	2	1	0
<u>Properly Filed</u> (Miniature Train Folder)					1	0
<b>Total</b>						<b>/38</b>
<b>Grade</b>						_____

All drawings should be in one file, different sheets, rename sheets.  
Do not dimension to isometric view.  
Balloon Extensions should NOT be horizontal/vertical.  
Name and Title should fill up space in titleblock.

Name \_\_\_\_\_

## Miniature Train Car Digital Portfolio Rubric Sheet

<u>Title Page</u> (Picture, Title, Name, Class, Click Here to Enter)	5	4	3	2	1	0
<u>Table of Contents</u> (Part Names, Spelling, Hyperlink Pages, Page Numbers, Hyperlink Title Page, Order)	5	4	3	2	1	0
<b>Brainstorming Notes</b>						
<u>Sketches</u>					1	0
<b>Working Drawings</b>						
<u>Ortho's of Each Part</u>	5	4	3	2	1	0
<u>Exploded Drawing</u> (with Train and Track)					1	0
<u>Assembly Drawing</u> (with Train and Track)					1	0
<b>Presentation Design</b>						
<u>Creativity</u> (Pgs Labeled, Pictures Cropped, Dwg Scale, Hyperlink Spelling)	4	3	2	1	1	0
<u>Slide Transition lock</u>					1	0
<b>Total</b>						<b>/23</b>
<b>Grade</b>						_____

## Miniature Train Car Inventor Rubric Sheet

<u>Detailed Annotated Sketches</u> (Sketches of new car)				2	1	0
<u>Creation of Parts in Inventor</u> (Drawn to Scale, Named Correctly)	4	3	2	1	1	0
<u>Orthographic Drawings</u> (Dwg's, Top, Front, RS, Iso, Rename Sheets)	4	3	2	1	1	0
<u>Dimensions</u> (Fully Dimensioned, Placement, Text Size, Leader Lines)	5	4	3	2	1	0
<u>Visual Design Elements</u> (Color Theme)					1	0
<u>Exploded View</u> w/Train and Track(Balloons, Parts List, Placement, Text Height, Description)	5	4	3	2	1	0
<u>Assembly Drawing</u> w/Train and Track (Ortho's, Shaded Iso, Overall Dims)			3	2	1	0
<u>Assembly File</u> w/Train and Track (IAM Fully Constrained)	4	3	2	1	1	0
<u>Titleblock Information</u> (Name, Title, Scale, Text Size, All Caps)	5	4	3	2	1	0
<u>Dwg Layout Design</u> (Views Labeled, Scale, Shaded.)			3	2	1	0
<u>Properly Filed</u> (Miniature Train Car Folder)					1	0
<b>Total</b>						<b>/37</b>
<b>Grade</b>						_____

All drawings should be in one file, different sheets, rename sheets.

Do not dimension to isometric view.

Balloon Extensions should NOT be horizontal/vertical.

Name and Title should fill up space in titleblock.

Name \_\_\_\_\_

### Model Creations Rubric Sheet

Quantity (10 Total)	5	4	3	2	1	0
Scale (drawn to scale)	5	4	3	2	1	0
Selection (3 from 11-16, 2 angles, 5 any)	5	4	3	2	1	0
Named Correctly					1	0
Filed Correctly					1	0
<b>Total</b>						<b>/17</b>
<b>Grade</b>						_____

Name \_\_\_\_\_

### Model Creations Rubric Sheet

Quantity (10 Total)	5	4	3	2	1	0
Scale (drawn to scale)	5	4	3	2	1	0
Selection (3 from 11-16, 2 angles, 5 any)	5	4	3	2	1	0
Named Correctly					1	0
Filed Correctly					1	0
<b>Total</b>						<b>/17</b>
<b>Grade</b>						_____

Name \_\_\_\_\_

### Model Creations Rubric Sheet

Quantity (10 Total)	5	4	3	2	1	0
Scale (drawn to scale)	5	4	3	2	1	0
Selection (3 from 11-16, 2 angles, 5 any)	5	4	3	2	1	0
Named Correctly					1	0
Filed Correctly					1	0
<b>Total</b>						<b>/17</b>
<b>Grade</b>						_____

Name \_\_\_\_\_

## Reverse Engineering Digital Portfolio Rubric Sheet

Title Page (Picture of Original, Inventor Picture, Title, Name, Class, Click Here to Enter)	6	5	4	3	2	1	0
Table of Contents (Part Names, Spelling, Hyperlink Pages, Page Numbers, Hyperlink Title Page, Order)	5	4	3	2	1	0	0
<b>Brainstorming Notes</b>							
Decision Matrix						1	0
Sketches						1	0
Visual Analysis Report (Your report, not the activity)						1	0
Functional Analysis Activity (Output Chart)						1	0
Product Disassembly Chart						1	0
<b>Working Drawings</b>							
Ortho's of Each Part	6	5	4	3	2	1	0
Exploded Drawing						1	0
Assembly Drawing						1	0
<b>Presentation Design</b>							
Creativity (Pages Labeled, Pictures Cropped, Dwg Scale, Hyperlink Spelling)			4	3	2	1	0
Slide Transition lock						1	0

**Total** /29  
**Grade** \_\_\_\_\_

## Reverse Engineering Inventor Rubric Sheet

Detailed Annotated Sketches (Sketches and dimensions of all parts)	6	5	4	3	2	1	0
Creation of Parts in Inventor (Drawn to Scale, Named Correctly)	6	5	4	3	2	1	0
Orthographic Drawings (Dwg's, Top, Front, RS, Iso, Rename Sheets)	6	5	4	3	2	1	0
Dimensions (Fully Dimensioned, Placement, Text Size, Leader Lines)		5	4	3	2	1	0
Visual Design Elements (Does this match Original)						1	0
Exploded View (Balloons, Parts List, Placement, Text Height, Description)		5	4	3	2	1	0
Assembly Drawing (Ortho's, Shaded Iso, Overall Dims)				3	2	1	0
Assembly File (IAM Fully Constrained)		5	4	3	2	1	0
Titleblock Information (Name, Title, Scale, Text Size, All Caps)		5	4	3	2	1	0
Dwg Layout Design (Views Labeled, Scale, Shaded,)				3	2	1	0
Properly Filed (Reverse Engineering Folder)						1	0
<b>Total</b>							<b>/46</b>
<b>Grade</b>							_____

All drawings should be in one file, different sheets, rename sheets.  
Do not dimension to isometric view.  
Balloon Extensions should NOT be horizontal/vertical.  
Name and Title should fill up space in titleblock.