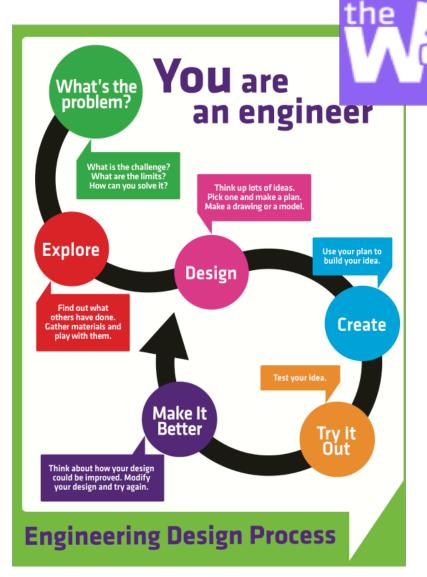
#### **DMST GRAPHIC DESIGN**

## Cereal Box Project





Name:			

Date: \_\_\_\_\_ Grade: \_\_\_\_ Section: \_\_\_\_



## **Cereal Box Project**

#### **DESIGN CHALLENGE**

> Design and build a cereal box that will appeal to the wants and needs of 6th -8th graders

#### Criteria **Constraints** Your prototype must stay within these limits... A self-standing, six sided box with... **Front Panel** The information on the box cannot... Misrepresent the product or contain any inappropriate Company Logo Name of cereal graphics, words or terms. Graphic and/or photo Use a name that already exists or characters from other **Back Panel** cereal brands. You may use a cartoon, movie, sports or Additional information television personality. Game or puzzle Use black and white graphics.

### Nutritional Facts Names and class section

#### **Approved Materials**

Hot glue

**Left Side Panel** 

Company Logo

Amount of weight

- Paper
- Other materials: (teacher approval needed)

Company name, address and website

\*NOTE: Materials will NOT be given out until a drawing is submitted with different views and an explanation of the design choice. Points will be lost if replacement parts are needed.

#### **Key Points**

Have images, fonts, labels etc., from the Internet

- Red makes people feel like they have the power to make choices
- Orange stimulates the appetite and is one of the most popular cereal box colors
- Blue calms and relaxes people

without citing the source.

Yellow makes people feel cheerful and energized

#### **Key Terms**

- Product- an object or a service provided to customers.
- Target market- a specific group of people that a company makes its product for.
- Consumer A person who buys a good or service.
- **Brand Name** The name under which a company sells its products.
- Promotion-advertising the product or making the customer aware of the product or service.
- Pricing- determining how much something will cost

#### **Cereal Box Competition**

The target market group will evaluate each box on the following 5 items:

- 1. Logo (Is the logo eye-catching & memorable? Does it stand out from other logos?)
- **2. Name of cereal** (Does the name create interest? Is it easy to remember?)
- 3. Ingredients (Will the target market like the ingredients?)
- **4. Colors & graphics** (Do the colors go together and have the effect you want? [See Key Points above])
- 5. Shape and design of box (Does it attract attention? Is it unique? Does it look "cool"?)

#### **IDENTIFY THE PROBLEM**

In your own words state what you've been asked to do.	
I have been asked to	_ that will
Look at the rubric for this project on the last page and then answer the next two questions.	
1. What do you think will be the most challenging part?	
2. What's ONE strategy you can try to overcome it?	

#### **RESEARCH THE PROBLEM**

Conduct interviews with your target market (6th-8th graders) and record their responses in the table below. P ut a check mark under the items they prefer and add them up when you're done.

Student	Sugar coating	Color	Unique shapes	Marsh- mallows	Fruit	Nuts	Reduced calories	Extra nutrition
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
TOTALS								
TOP 3								

#### **DEVELOP POSSIBLE SOLUTIONS**

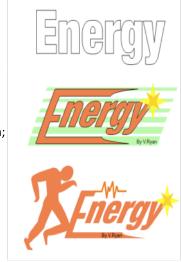
In the boxes below, draw six (6) **different isometric versions** (see example) of what your cereal box might look like. It's very important to include the top choices from the target market and show them on the outside of each box in very dramatic ways, using colors and font shapes to attract attention like the examples below.

The food packaging information should tell the user:

- ▲ the name and a description of the food;
- ▲ the name and address of the company that made it;
- the amount of weight of the contents;
- ▲ the ingredients that have been used to make it;
- ▲ nutritional information, such as the calories it contains, if it is high in fibre and so on;
- how the food should be prepared or cooked;
- how long it can be kept and in what conditions;







Prototype #1	Prototype #2
Prototype #3	Prototype #4
Prototype #5	Prototype #6

CEREAL	COST	COST TO MAKE	
■ 15 oz	\$0.70		
■ Sugar coating	\$0.27		
<ul> <li>Coloring (raspberry red, lemon yellow, etc)</li> </ul>	Each color \$0.16		
<ul> <li>Unique or unusual shapes</li> </ul>	\$0.14		
<ul><li>Marshmallows</li></ul>	\$0.23		
Fruit (raisins, blueberries, etc.)	Each type of fruit \$0.26		
■ Nuts	\$0.25		
Reduced fat and calories	\$0.27		
Extra nutrition	\$0.32		
вох	COST	COST TO MAKE	
■ 15 oz. standard box w/4 colors	\$0.32		
<ul><li>Larger than 15 oz. or irregular shape (octagon)</li></ul>	\$0.48		
Foil inner wrapper	Foil inner wrapper \$0.13		
<ul> <li>Wax paper wrapper</li> </ul>	\$0.32		
Prize inside	\$0.42		
Celebrity/Sports person on package	\$0.50		
Fictional character on package	\$0.25		
	TOTAL PRODUCTION COST (Add all of the above)		
	PROFIT FOR YOUR COMPANY (Multiply production cost by 13% (0.13)		
	COST TO RETAILERS (Add production cost plus profit)		
COST TO CONSUMERS (Add cost to retailers plus profit to company)			

#### **CHOOSING & MARKETING A SOLUTION**

Identify which prototype you've chosen to make and explain why. If you really can't tell me why this prototype is insanely great, you shouldn't be building it.

A paragraph has a beginning a middle and		
an end.	 	
The <b>beginning,</b> or the topic sentence, states		
what the paragraph is about.	 ·	 
The <b>middle</b> develops the idea in detail by giving specific support & details		
for it (usually 3 - 5).	 	 
The <b>end</b> (conclusion)	 	 
restates the main idea in	 	
the topic sentence.		
	 <del></del>	 

## BUILD A PROTOTYPE ENGINEERING LOGS

#### **EXAMPLE**

On the lines below, describe what you did. Mention any difficulties you had or any design changes you made.	Make a labeled sketch that shows what you did.
LOG#5: Date: 5/3/2  Todon I pinished atto- ching the weater I had a hard think w/ the gents because the the year with the gran motor is to bis so I changed it to a little emaller enstead. I also used a velore instead of glowing the motor on the car Todon my car is fie-	
<ul> <li>☐ YES I described the drawing in a clear and understandable way</li> <li>☐ YES I used key terms and information to accurately describe my progress and drawing. I have enough information.</li> <li>☐ YES My description is neatly written and legible.</li> </ul>	<ul> <li>■ YES My drawing is large enough to show all the details.</li> <li>■ YES My line quality is sharp and precise (no smudges)</li> <li>■ YES My labels are outside the drawing and accurate</li> <li>■ YES My drawing uses shading for highlights</li> </ul>

Describe what you did today. Mention any problems you had, design changes or questions.	Make a labeled sketch that shows what you did.
LOG #1 Date:	
YES I used complete sentences to describe my progress YES My description is neatly written and legible YES I used key terms when possible	YES My drawing is large enough and centered in the space YES My line quality is sharp and precise (no smudges) YES Labels and dimensions are OUTSIDE the drawing

Describe what you did today. Mention any problems you had, design changes or questions.	Make a labeled sketch that shows what you did.
LOG #2 Date:	
YES I used complete sentences to describe my progress YES My description is neatly written and legible YES I used key terms when possible	YES My drawing is large enough and centered in the space YES My line quality is sharp and precise (no smudges) YES Labels and dimensions are OUTSIDE the drawing

Describe what you did today. Mention any problems you had, design changes or questions.	Make a labeled sketch that shows what you did.
LOG #3 Date:	
YES I used complete sentences to describe my progress YES My description is neatly written and legible YES I used key terms when possible	YES My drawing is large enough and centered in the space YES My line quality is sharp and precise (no smudges) YES Labels and dimensions are OUTSIDE the drawing

Describe what you did today. Mention any problems you had, design changes or questions.	Make a labeled sketch that shows what you did.
LOG #4 Date:	
YES I used complete sentences to describe my progress YES My description is neatly written and legible YES I used key terms when possible	YES My drawing is large enough and centered in the space YES My line quality is sharp and precise (no smudges) YES Labels and dimensions are OUTSIDE the drawing

Describe what you did today. Mention any problems you had, design changes or questions.	Make a labeled sketch that shows what you did.
LOG #5 Date:	
YES I used complete sentences to describe my progress YES My description is neatly written and legible YES I used key terms when possible	YES My drawing is large enough and centered in the space YES My line quality is sharp and precise (no smudges) YES Labels and dimensions are OUTSIDE the drawing

#### **COMPLETE DECISION**

Some reasons for this are:	
1	
2	
3	
Manager de Brosselad ou et af the Bross Br	
<b>very good</b> : It worked most of the time it to Some reasons for this are:	was tested and didn't need any (or many) repairs
2	
<b>Good:</b> it worked some of the time it was to	ested and needed repairs
Some reasons for this are:	·
1	
3	
<u> </u>	
Not goods it didn't roally work	
<b>Not good:</b> it didn't really work	
Some reasons for this are:	
Some reasons for this are:  1	
Some reasons for this are:  1  2	
Some reasons for this are:  1  2	
Some reasons for this are:  1  2	
Some reasons for this are:  1 2 3 Things that I redesigned (changed)	
Some reasons for this are:  1 2 3 Things that I redesigned (changed)	What the changes did
Some reasons for this are:  1 2 3 Things that I redesigned (changed)	What the changes did
Some reasons for this are:  1 2 3 Things that I redesigned (changed)	What the changes did
Some reasons for this are:  1 2 3 Things that I redesigned (changed)	What the changes did  1  2
Some reasons for this are:  1 2 3 Things that I redesigned (changed)	What the changes did  1  2
Some reasons for this are:  1	What the changes did  1  2
Some reasons for this are:  1	What the changes did  1  2  3
Some reasons for this are:  1	What the changes did  1  2  3  What these might do  1
Some reasons for this are:  1	What the changes did  1  2  3  What these might do

#### **OPEN RESPONSE: MAKING THE SNEAKER**

A new type of sneaker is being designed for athletes who play on hard surfaces.

- a. List **three** divisions of the manufacturing organization involved in the design, manufacture, and promotion of this new style of sneaker.
- b. Describe the general role of **each** division you identified in part (a).


# Cereal Box Project

Date:				
<b>GOAL #1: I CAN apply</b> the Engineering Design process to <b>imagine</b> , <b>plan</b> and <b>build</b> solutions to situations involving bioengineering.				
This is h	ow I'll d	do it		
	that sh	collection ows differe		
0	1	2	3	4
		xplanation for supporting		
0	1	2	3	4
c. I will make three-view orthographic drawings of my "best idea" with <u>measurements</u> & <u>labels</u> that others can follow. [p.6]				
0	1	2	3	4
<b>d.</b> I will complete open response question(s) about manufacturing technology & engineering [p.12]				
0	1	2	3	4
<b>e.</b> I will keep track of my progress and design changes by completing engineering logs during the project.				
Engineering Log #1 [p.8]				
0	1	2	3	4
Engineering Log #2 [p.9]				
0	1	2	3	4
Engineering Log #3 [p.9]				
0	1	2	3	4
Engineering Log #4 [p.10]				
0	1	2	3	4
Engineering Log #5 [p.10]				
0	1	2	3	4
<b>f</b> . I will collect and display data about my prototype and use it to evaluate how well it worked. [p.11]				

2

3

**Final Score** 

4

0

Name:

**GOAL#2:** I **CAN select** and **judge** which tools, materials and methods are the best and safest to use when making a prototype. **This is how I'll do it...** 

Grade: \_\_\_\_ Section: \_\_\_\_

# a. I will wear safety goggles and follow all safety procedures in the workshop without reminders. 0 1 2 3 4 b. I'll keep track of my materials and not need

any replacement parts.

0 1 2 3 4

**c.** I will clean up my work space and put tools and materials back where they belong.

0 1 2 3 4

**d.** I will pass the tool-use license test(s) for this project.

0 1 2 3 4			F	inal Score	
	0	1	2	3	4

**GOAL#3: I CAN explain** and **defend** my reasons for the tools and materials I use when building prototypes.

#### This is how I'll do it...

**a.** I will follow my production drawings and building guide to make cardboard furniture fit for an "average" middle school student.

0 | 1 | 2 | 3 | 4

**b.** I will build a prototype that looks like a finished product without any loose parts, damaged or rough surfaces, dents, gouges or globs of glue.

0 1 2 3 4

**c.** I will build, test and demonstrate a prototype that is sturdy, holds together and doesn't need repairs between multiple uses.

0 1 2 3 4

Final Score