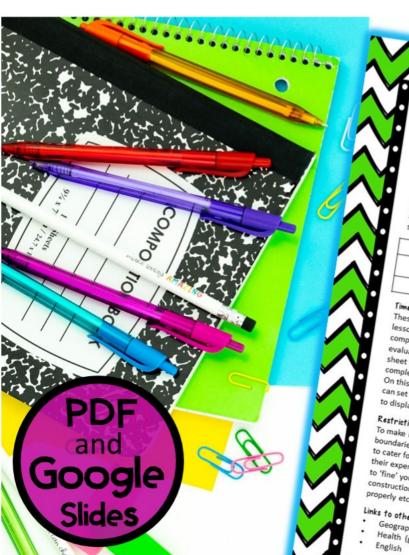
Digital & Print resource Key Information Sheet





Design, Engineer and Build resources have been created to help middle

Students use their scientific /engineering), technological, mathematical skills to help problem solve and create an end product. They are then able to use their artistic skills to help create a design/look that will appeal to

items needed to successfully run each challenge:

The resources used are readily available in most classrooms or can be purchased at a local shop. You can negotiate with your students about additional materials or take one out if you don't have access to it (tell the

Таре	Supply ((tell)
Cardboard	Glue	
	Pop sticks/craft sticks	Paper
Cups	6	Straws
Time frame required:	Scissors	
These projects		String

These projects can run for as little or as long as you like depending on your lesson requirements. It generally would take a minimum of 30minutes to complete. You can extend the students thinking and ask them to re evaluate and improve if you have significantly longer time. On the students sheet they are asked to circle the time frame they have been given to

On this student sheet it also has a space for the maximum model size. You can set this depending on the size or paper/ cardboard and space you have Restrictions:

To make it more realist the students are required to work within boundaries. They have a set budget of either \$100 or \$1,000 (allowing you to cater for all learning levels). The students can then either keep a tally of their expenses using the table or coupons provided. You may also decide to 'fine' your students for unsafe practices (le going into another construction zone – another group's work area, not using equipment Links to other curriculum areas:

- Health (group work/ social skills)

Help the Easter Bunny to Deliver all of the Eggs



Design Endineer abuild?

easter – safe delivery

Working with numbers up to loo



The Scenario: The Easter Bunny is sick and needs some time off. They need to employ you to deliver the rest of the Easter Eggs safely for the children

The challenge:



To design and create a method to deliver Easter eggs safely and securely. What device or contraption could you make to help deliver at least 2 eggs without them breaking? They will need to be able to be dropped from a minimum height of 30cms and survive without cracking.

Your Budget: \$100 Material costs

	rial costs:	
Material	Cost	
Straws	\$1 each	
Tape	\$1 per 5cm (2 inches)	
Glue		
Cardboard	\$1 per 10 mins	
	\$15 per sheet	
Paper	\$10 per sheet	
Pop sticks/ craft sticks	\$1 each	
Cups	\$2 each	
Other	92 each	

TEACH DREAM





and needs some time you to deliver the ifely for the children

od to deliver Easter at device or o help deliver at aking? They will from a minimum vithout cracking.



4 Levels of Differentiation

Cater for all students with \$100 & \$1,000 budgets and construction



EASTER – SAFE DELIVERY

Design Engineer & Build!

EASTER – SAFE DELIVERY

Working with numbers up to 1.000

Design Endineer & Build?

EASTER – SAFE DELIVERY

Working with numbers up to 100

The Scenario: The Easter Bunny is sick and needs some time cil They need to employ you to deliver the of the Easter Eggs safely for the children

> and create a method to deliver Easter safelu and securelu. What device or traption could you make to help deliver at ast 2 eggs without them breaking? They will eed to be able to be dropped from a minimum height of 30cms and survive without cracking

Your Budget: \$100 Material costs:

Design. Engineer & Build?

EASTER - SAFE DELIVERY

Working with numbers up to 1,000 * Construction Worker Costs included

The Scenario: The Easter Bunny is sick and needs some time



The challenge:

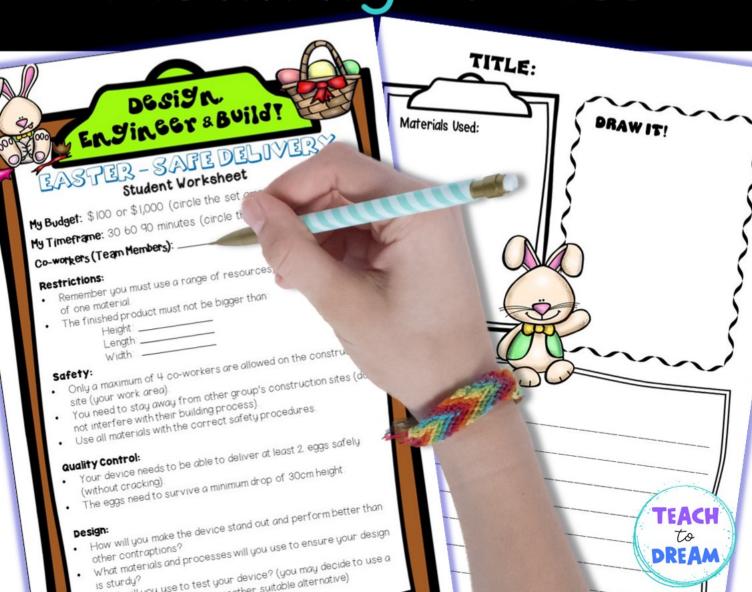


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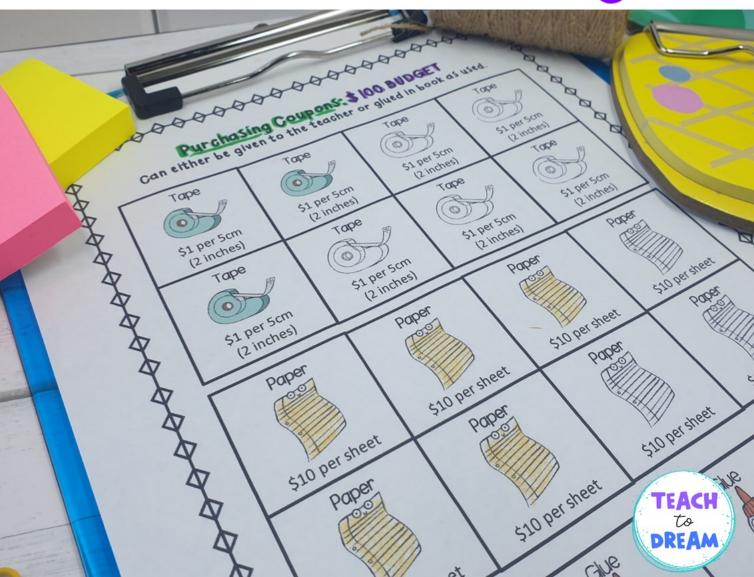
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Material / con

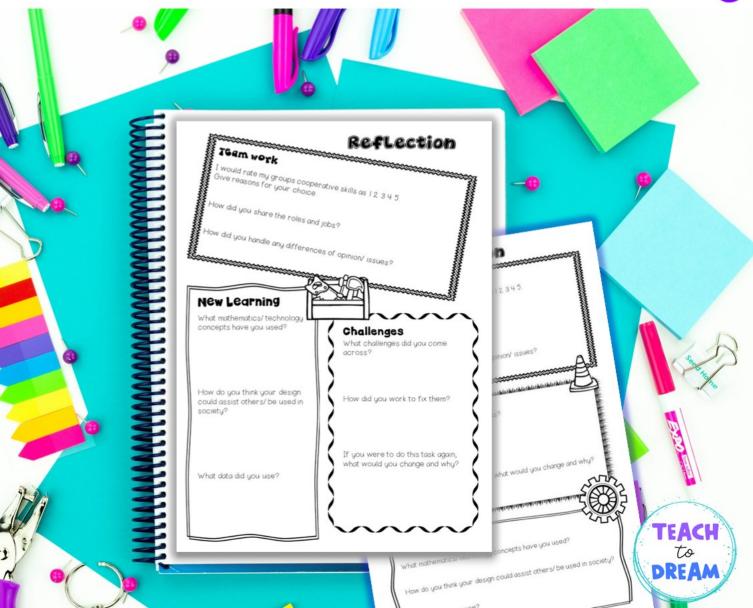
Group Planning Sheets



Have students work within a set budget



Encourage groups to Reflect on their learning



Interested in STEM for ALL the Holidays?

MIDDLE SCHOOL STEM YEAR OF HOLIDAYS



Click to SAVE time & Money