

Digital & Print resource

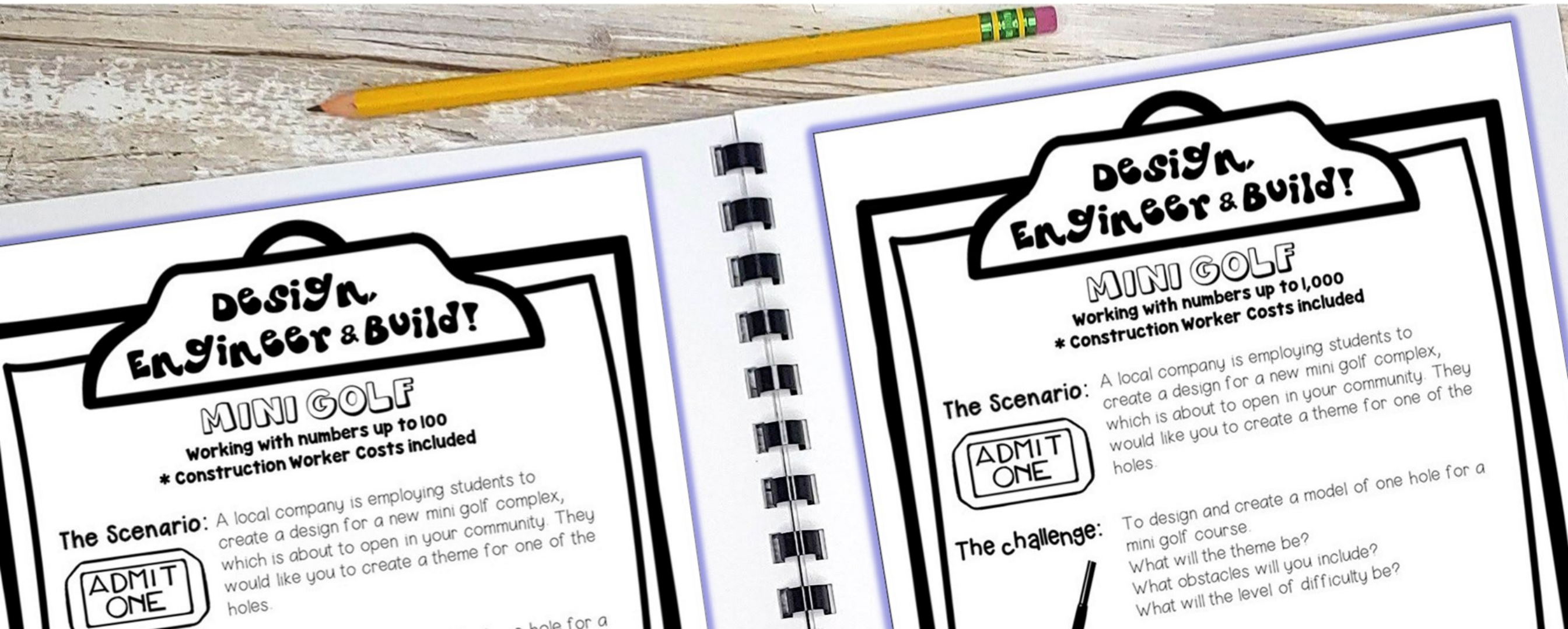
Key Information Sheet

TEACH
to
DREAM

Teacher Information
Design, Engineer and Build resources have been created to help mid school students engage with STEM/STEAM. Students use their scientific /engineering), technological, mathematical skills to help problem solve and create an end product. They are then to use their artistic skills to help create a design/ look that will appeal their targeted audience.

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. For students the company is currently out of stock.

4 Levels: Differentiation Cater for all students



Design, Engineer & Build!

MINI GOLF

Working with numbers up to 100
* Construction Worker Costs included

The Scenario: A local company is employing students to create a design for a new mini golf complex, which is about to open in your community. They would like you to create a theme for one of the holes

ADMIT
ONE

Design, Engineer & Build!

MINI GOLF

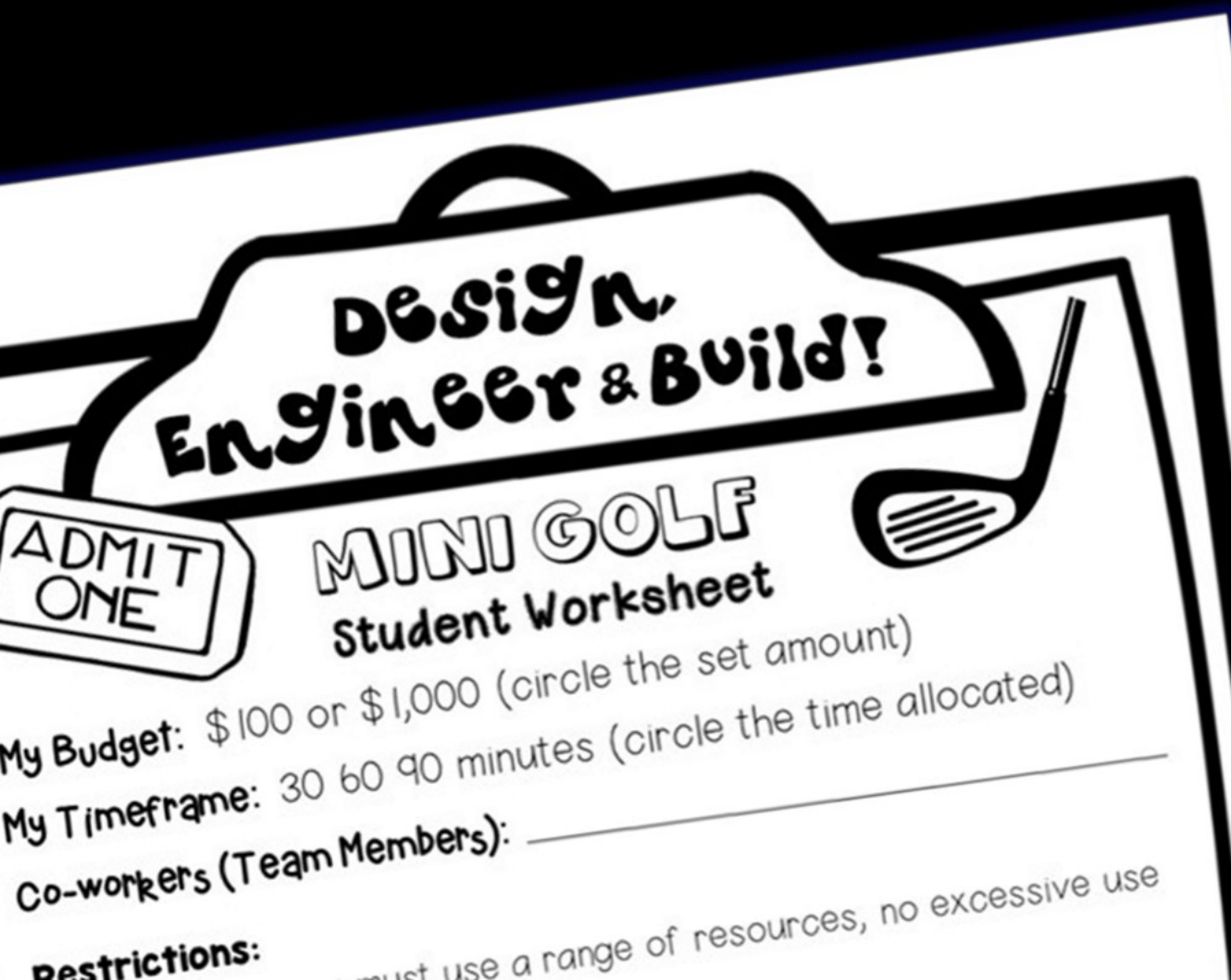
Working with numbers up to 1,000
* Construction Worker Costs included

The Scenario: A local company is employing students to create a design for a new mini golf complex, which is about to open in your community. They would like you to create a theme for one of the holes.

ADMIT
ONE

The challenge: To design and create a model of one hole for a mini golf course.
What will the theme be?
What obstacles will you include?
What will the level of difficulty be?

Group Planning Sheets



Design Engineer & Build!

ADMIT ONE

MINI GOLF Student Worksheet

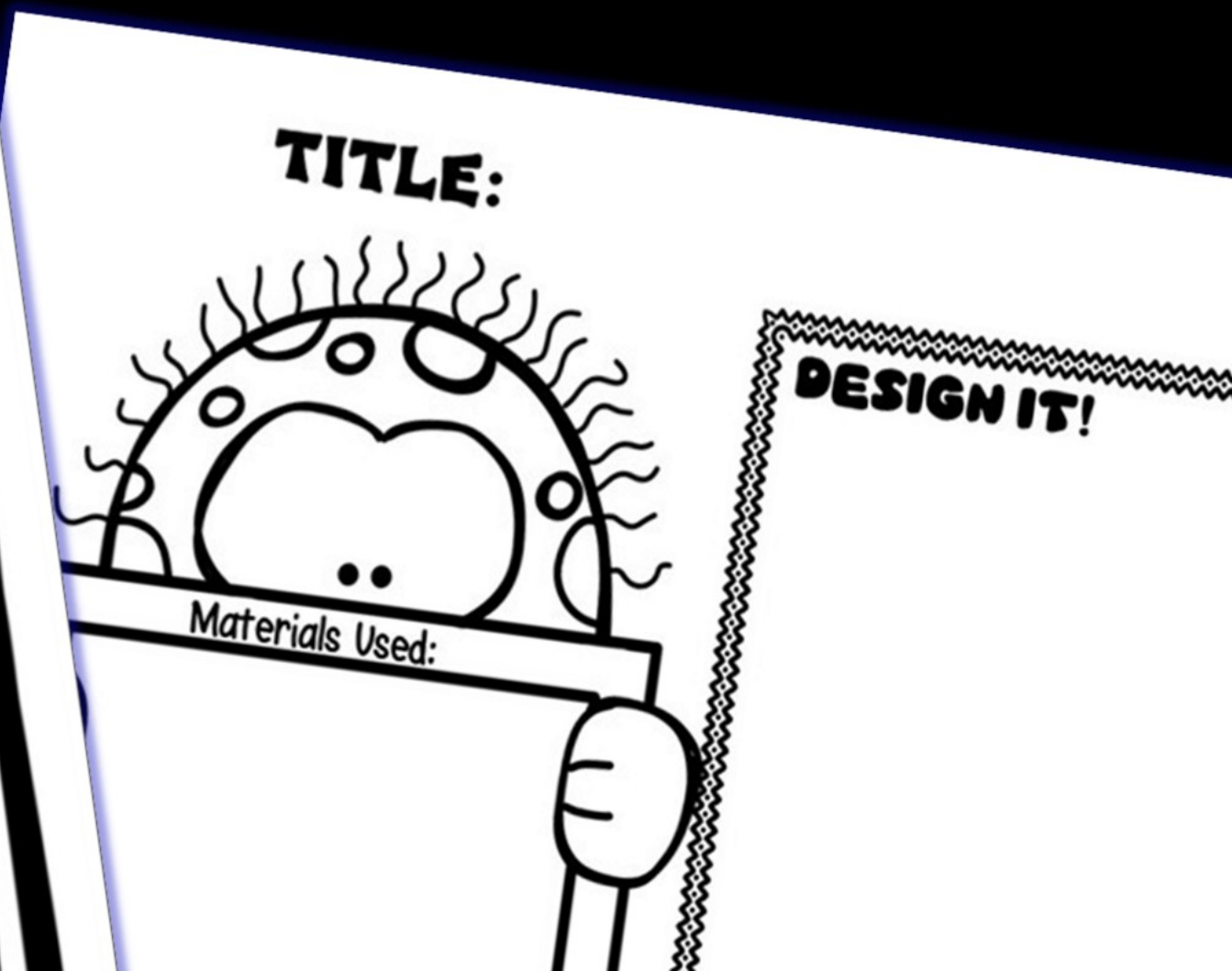
My Budget: \$100 or \$1,000 (circle the set amount)

My Timeframe: 30 60 90 minutes (circle the time allocated)

Co-workers (Team Members): _____

Restrictions: _____ must use a range of resources, no excessive use

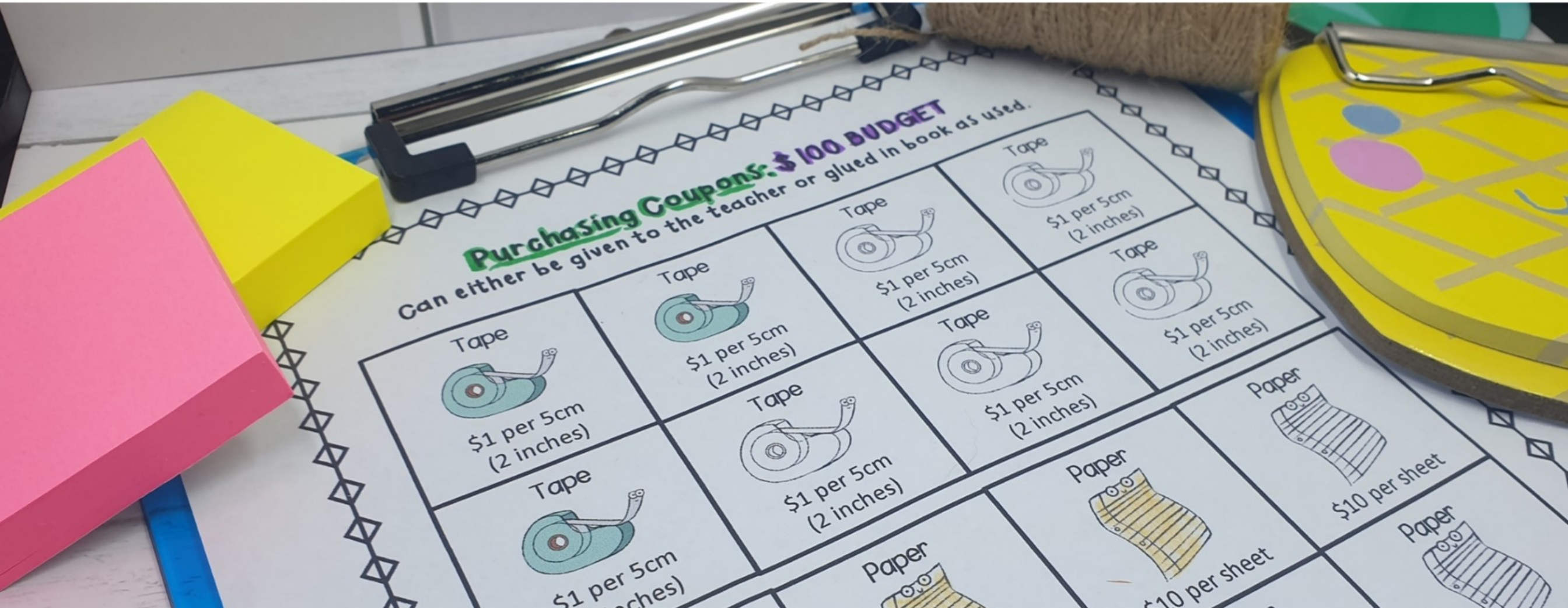
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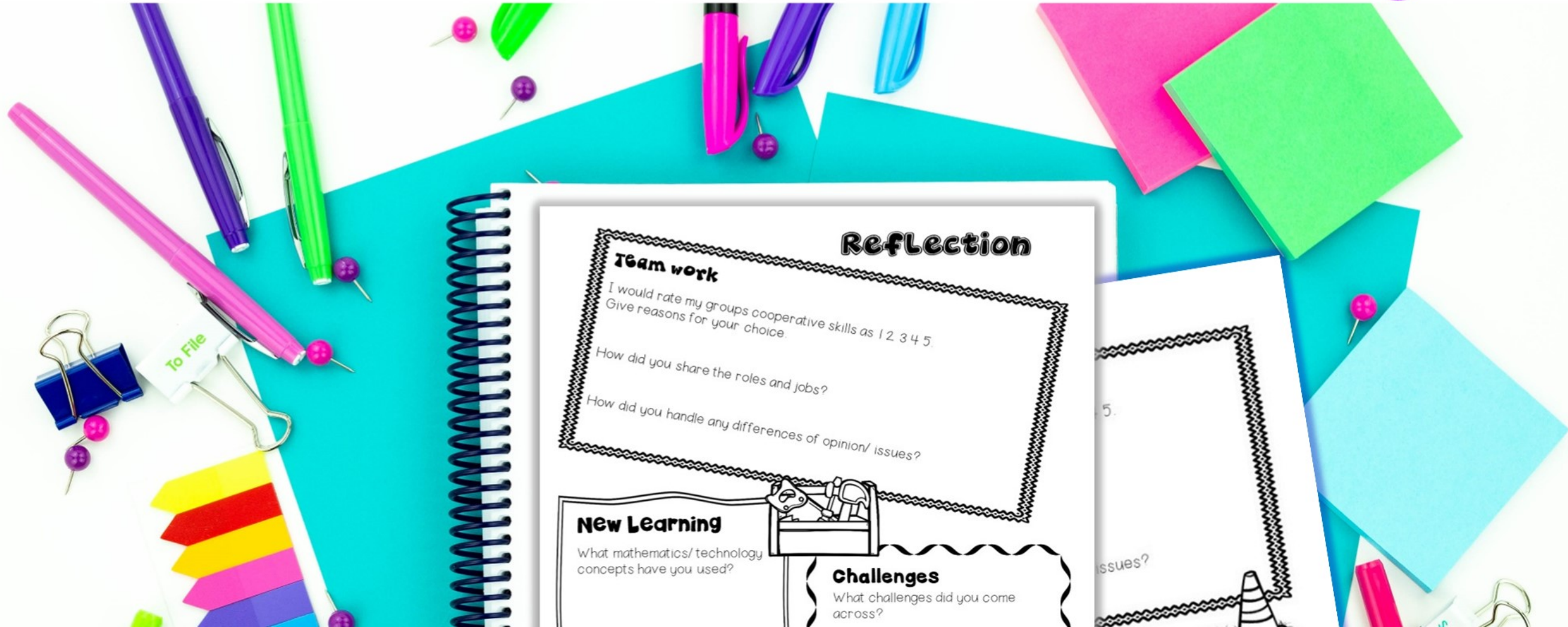
DESIGN IT!

Materials Used: _____

Have students work within a set budget



Encourage groups to Reflect on their learning



Reflection

Team work

I would rate my groups cooperative skills as 1 2 3 4 5.
Give reasons for your choice

How did you share the roles and jobs?

How did you handle any differences of opinion/ issues?

New Learning

What mathematics/ technology concepts have you used?

Challenges


What challenges did you come across?

Quick & Easy Assessment



MINI GOLF 

On task learning	/5
Working out	/5
Correct calculations	/5

MINI GOLF 

On task learning	/5
Working out	/5
Correct calculations	/5
Team work	/5