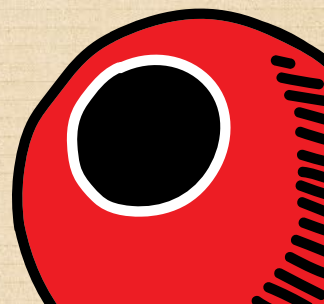
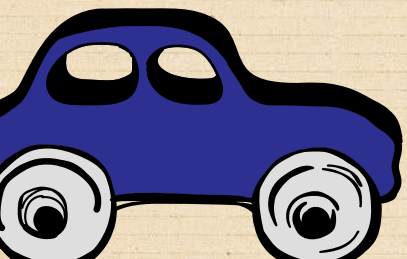


Feb 05 to May 17

**ARUBE
WHAT?**

**STUDENT'S
WORKSHEET**

A STEAM-azing challenge!



TEAM / STUDENT'S NAME:

.....

TEAM MEMBERS (UP TO 5 STUDENTS):

1.

2.

3.

4.

5.

IMAGINE IT!

• What task will your machine do?

POP A BALLOON DROP A BALL RING A DESK BELL

• How many steps will you design?.....

• What materials will you use for each step?

Step 1:

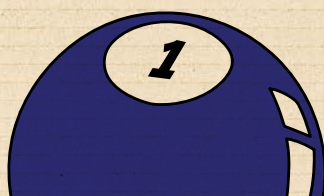
Step 2:

Step 3:

Step 4:

Step 5:

Step 6:



• **What action will trigger the...**

1st step?

2nd step?

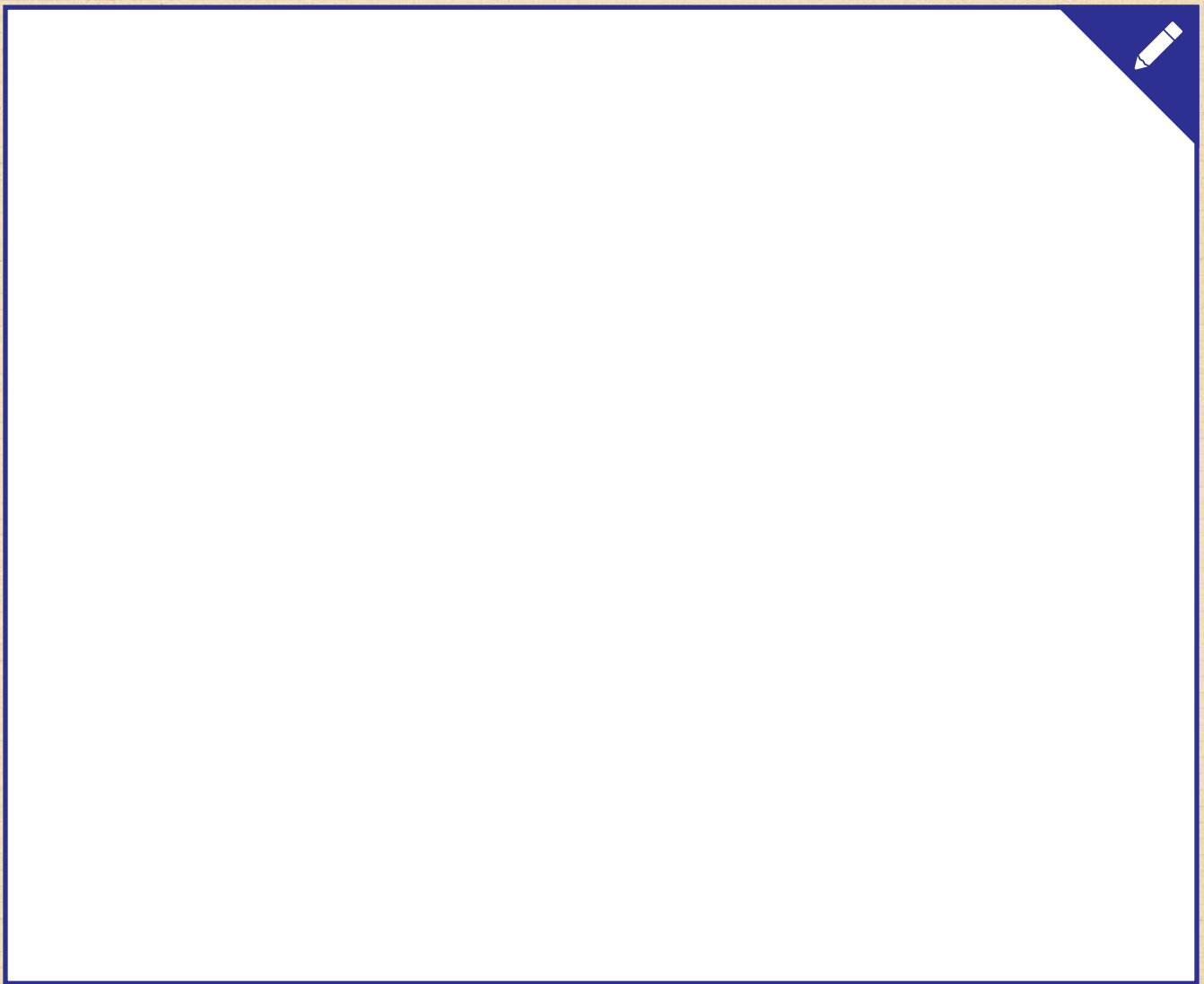
3rd step?

4th step?

5th step?

6th step?

DESIGN IT!



Did you finish already?! No worries! Think of THREE problems your machine may have and a way to fix each problem!

TIME TO BUILD IT!

Step 1: Collect your materials!

Step 2: Start building your STEAM-azing machine!

DOES IT WORK?!

Test your machine and check if it works! It doesn't?

We thought so!

NOW, THINK:

What steps are successful?

STEP 1 STEP 2 STEP 3 STEP 4 STEP 5 STEP 6

What steps are not successful?

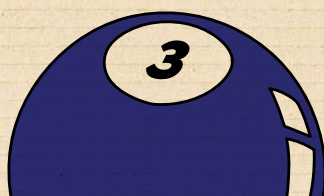
STEP 1 STEP 2 STEP 3 STEP 4 STEP 5 STEP 6

What should you change?

.....
.....

What materials do you need?

.....
.....



NOW, TRY AGAIN!

DID YOU MAKE IT?

REFLECT ON IT!

What did you learn?

.....

What did you enjoy most?

.....

What would you do differently next time?

.....

PRESENT IT!

Get ready to present your machine!

Each team member should speak about a part of the process:

- the task it performs and the steps that are needed
- the materials you used
- the challenges you encountered
- the ways you moved past those challenges

Failure is success in progress!

– Albert Einstein

