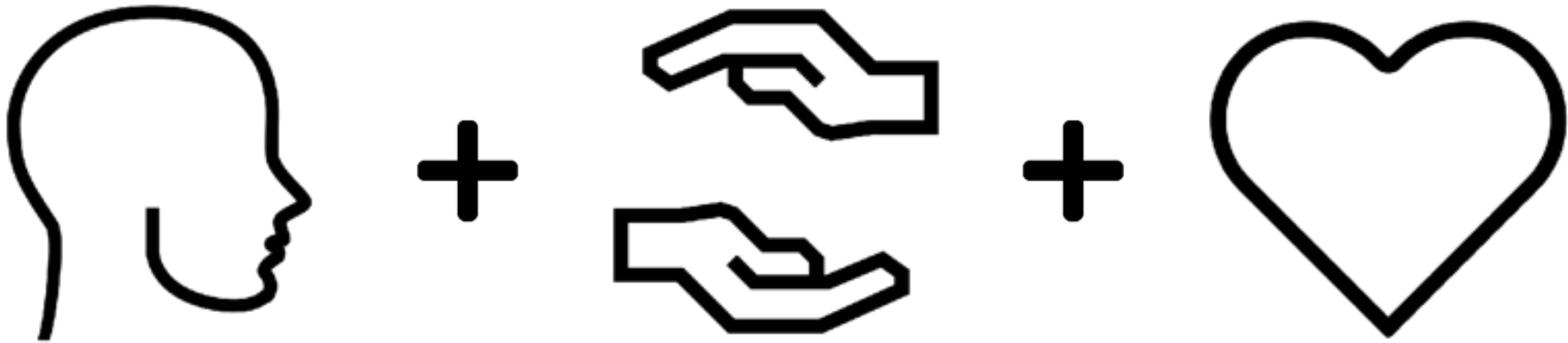


Making with



Josh Ajima @DesignMakeTeach



Bell Ringer

**Think of something meaningful/
important to you.**

**What symbol/icon could represent
that thing?**



Share

-with the person next to you.

-<https://padlet.com/designmaketeach/now3ebest7dj>



Goal

**Hands-on exploration of constructivism and constructionism concepts using simple materials.
Explore makerspace teaching and learning strategies.**

Agenda

- Introduction**
- Hands-On Activities**
- Challenge**
- Closure**

HANDOUTS & CONTACT INFO



DesignMakeTeach.com/TCEA

Josh Ajima

@DesignMakeTeach

DesignMakeTeach.com

youtube.com/designmaketeach

FEATURED PRESENTER



Digital Fabrication in the Classroom

Mon, February 5th, 8:00 AM – 11:00 AM, 9C

Scaling Up the Makerspace

Mon, February 5th, 3:30 PM – 4:30 PM, Ballroom E

The Maker Mindset

Tue, February 6th, 9:45 AM – 10:45 AM, Ballroom F

Making with Head, Hands, and Heart

Tue, February 6th, 11:30 AM – 1:00 PM, 6B

The Makerspace Chromebook

Wed, February 7th, 8:00 AM – 11:00 AM, 10A

3D Printing Projects That Matter

Wed, February 7th, 3:30 PM – 5:00 PM, 9A

EDUCATOR



Instructional Facilitator for Technology
-Dominion High School & Loudoun Academy of Science, Sterling, VA (2003-present)

Director of Instructional Technology
-Clarke County, VA(1998-2003)

Teacher: Chemistry, 7th Life Science, 8th Physical Science, Cisco Networking
-Clarke County, VA (1996-1998)

MAKER



**Make Magazine Review Team
2014 & 2015**

**Featured: Thingiverse,
Pinshape, Adafruit**

**World Maker Faire NY: Best
in Class Ribbon**

**Outsider Art Fair NY: Tower
Design Competition - 2nd
Place**

MAKER EDUCATOR

CTE MAKEOVER
CHALLENGE



Construct3D
3D PRINTING & DIGITAL FABRICATION FOR EDUCATION



Top Educational Model

The Top Educational Model Award goes to **DesignMakeTeach** for his design, Hidden Figures. This model integrates a number of educational concepts, including 3D modeling and the physics involved with light opacity. Congratulations and we hope the Wacom Cintiq and Adafruit and 3D Hubs gift cards help you continue your inspirational work!

**US Department of Education's CTE
Makeover Challenge Winner**

Stanford FabLearn Fellow

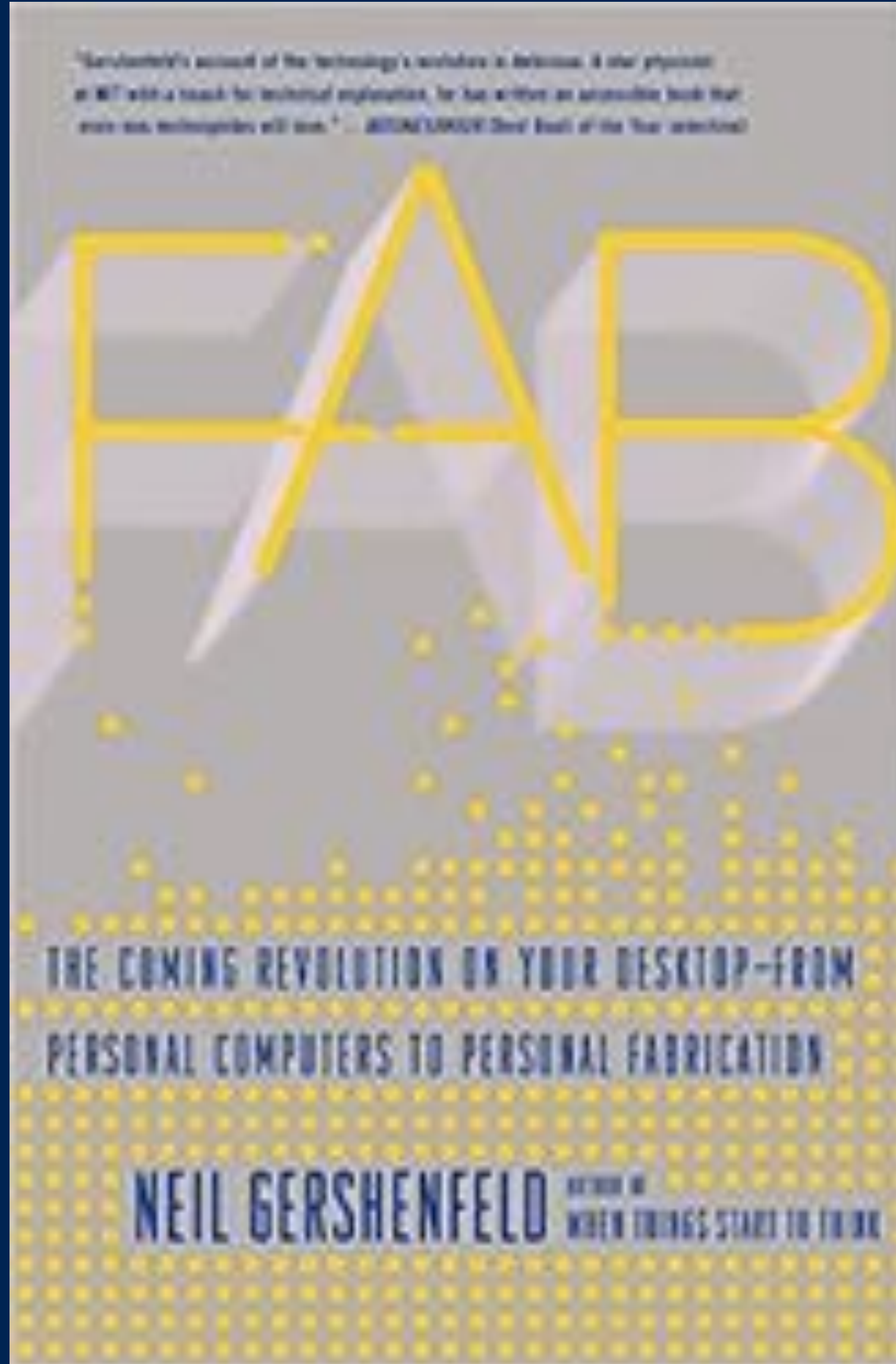
**Formlabs 3D Design Awards -Top
Educational Model**

Construct3D 2017 - K12 Program Chair

VSTE Innovative Educator of the Year

Josh Ajima - DesignMakeTeach.com

MY MAKER JOURNEY



Neil Gershenfeld: MIT Center for Bits and Atoms

-2005 NSBA Conference

-How to Make (almost) Anything

-Personal Fabrication

-FabLabs

UNIVERSAL DESIGN FOR LEARNING

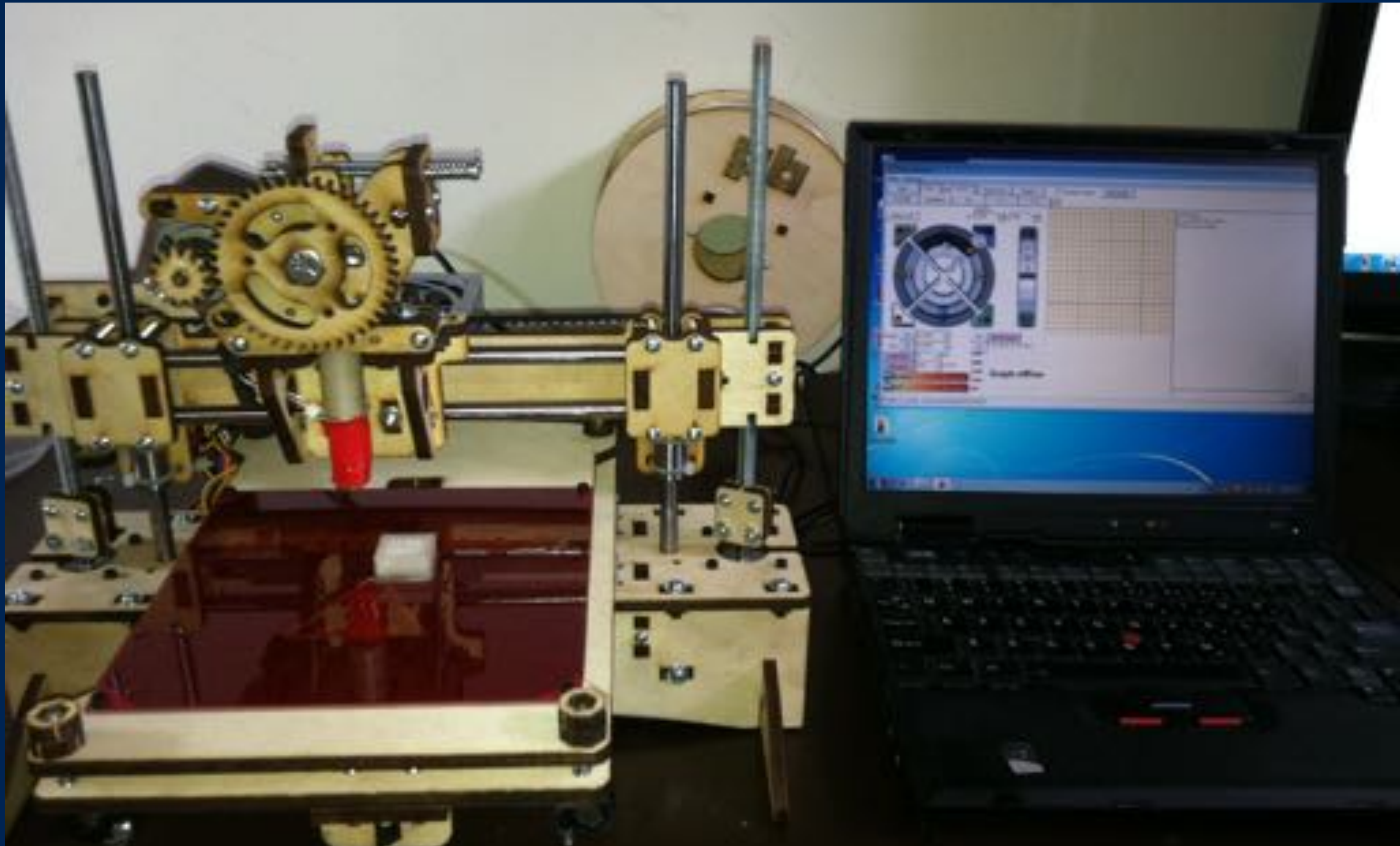
- Multiple Means of Engagement
- Multiple Means of Representation
- Multiple Means of Action & Expression



A MAKER EDUCATION MODEL



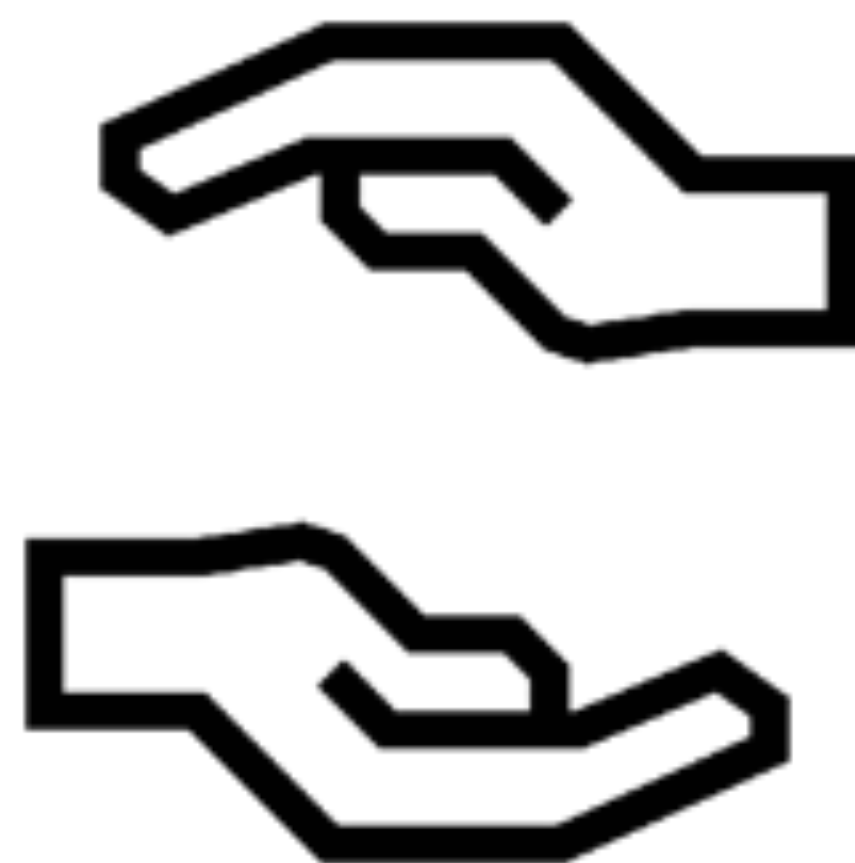
PERSONAL INVESTMENT



Josh Ajima - DesignMakeTeach.com

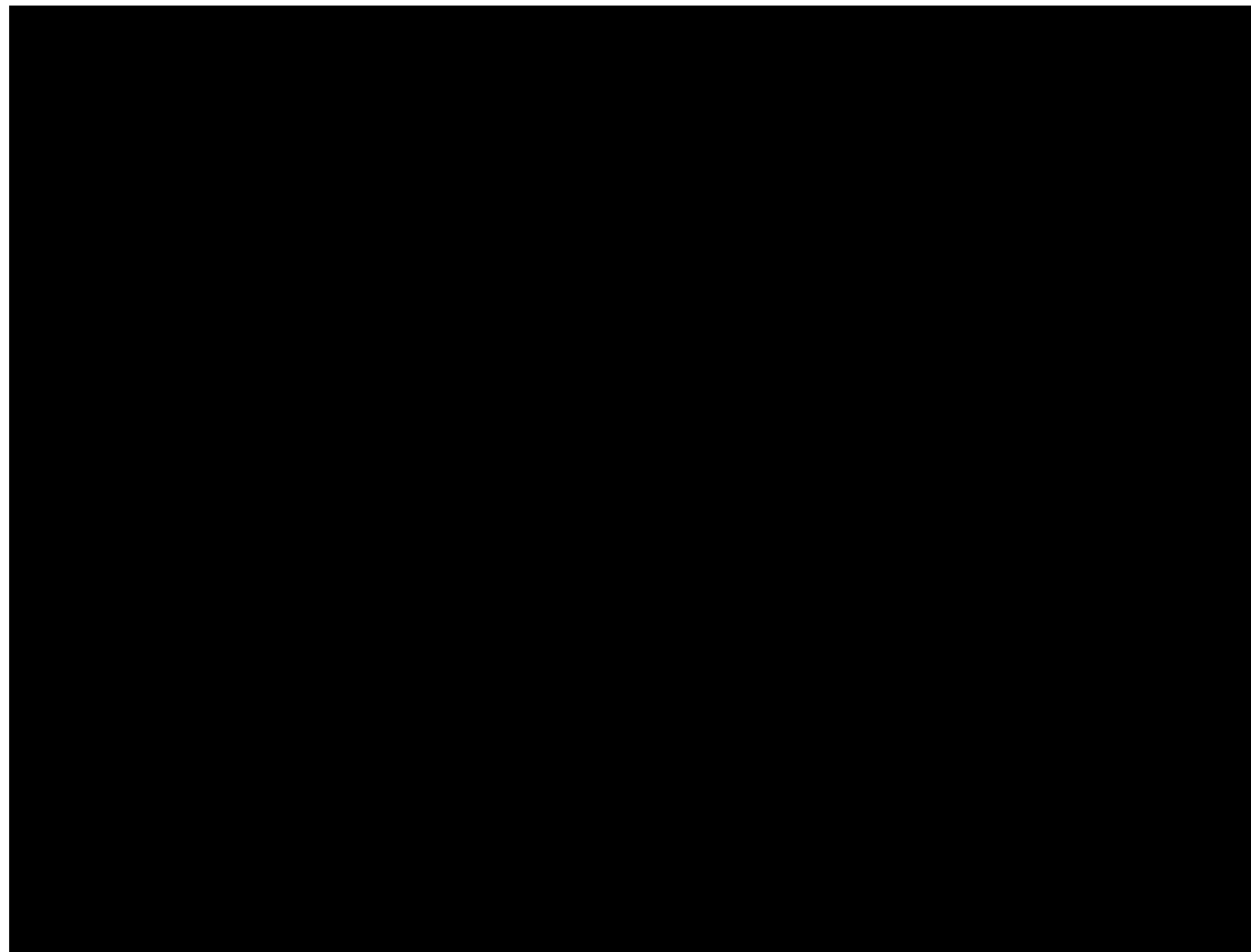
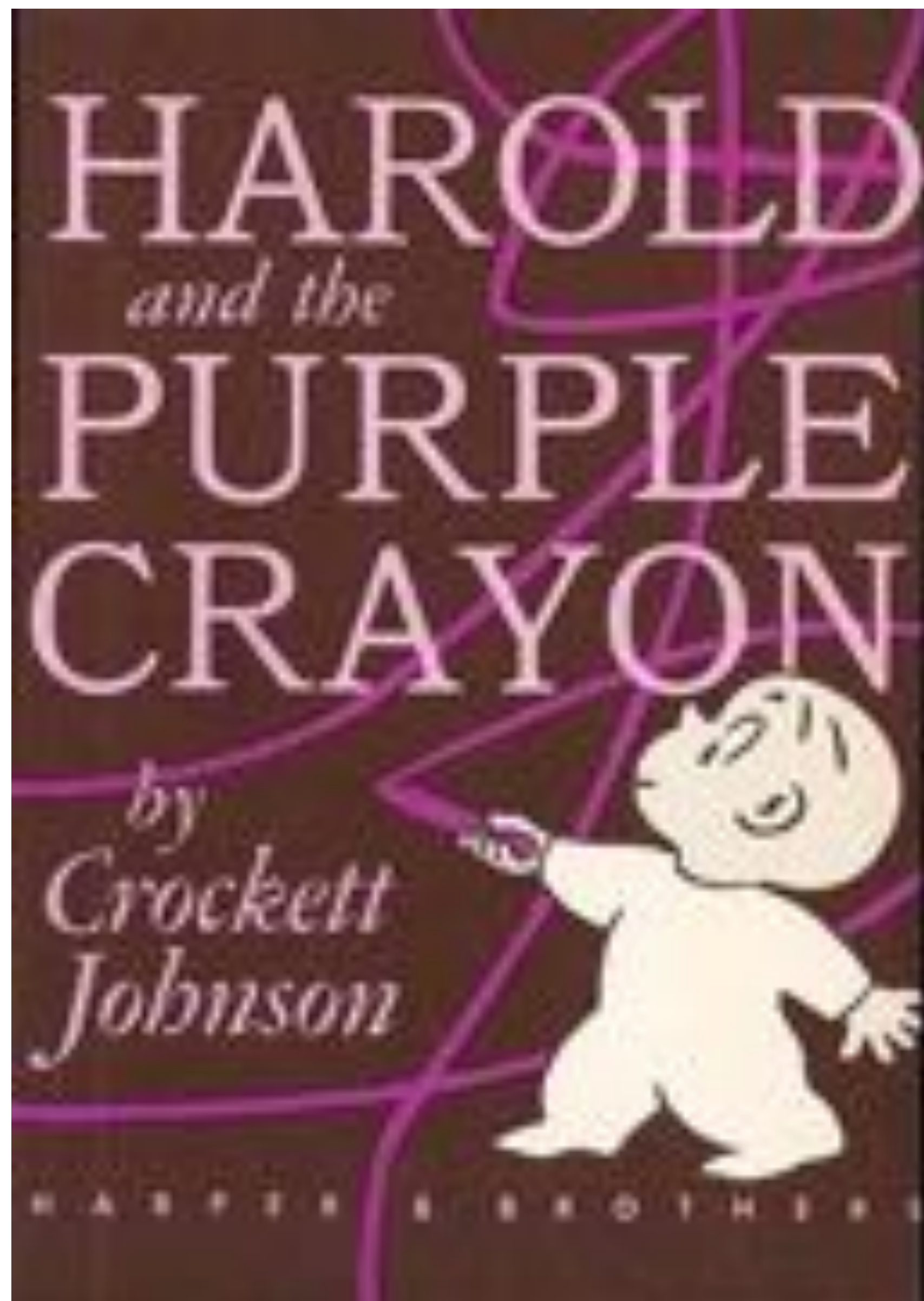


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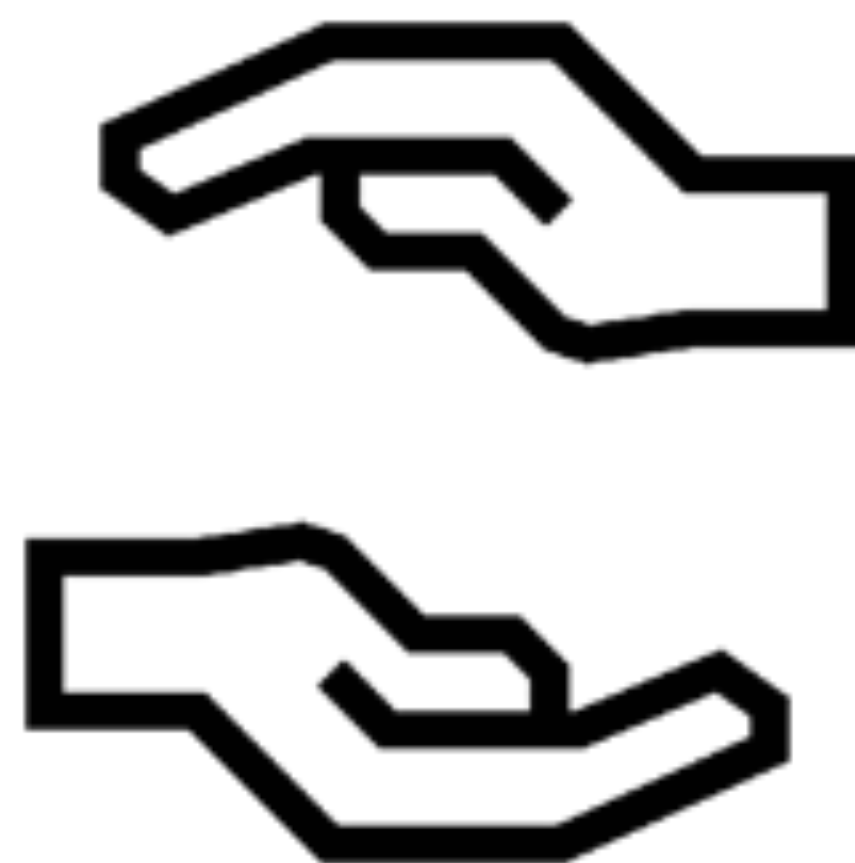


On the blank index card, use your purple crayon to draw a symbol or icon that represents something personally meaningful to you.

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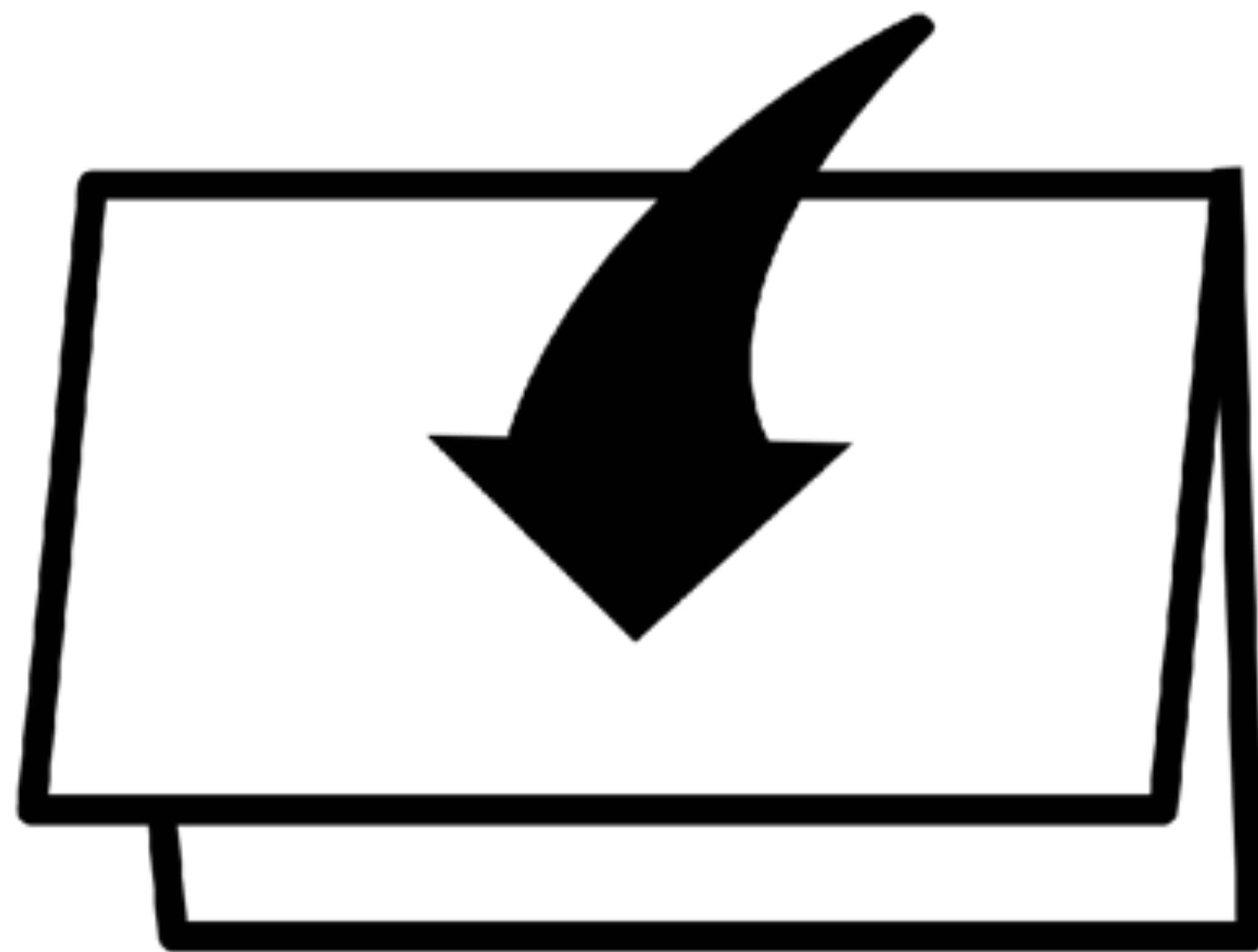


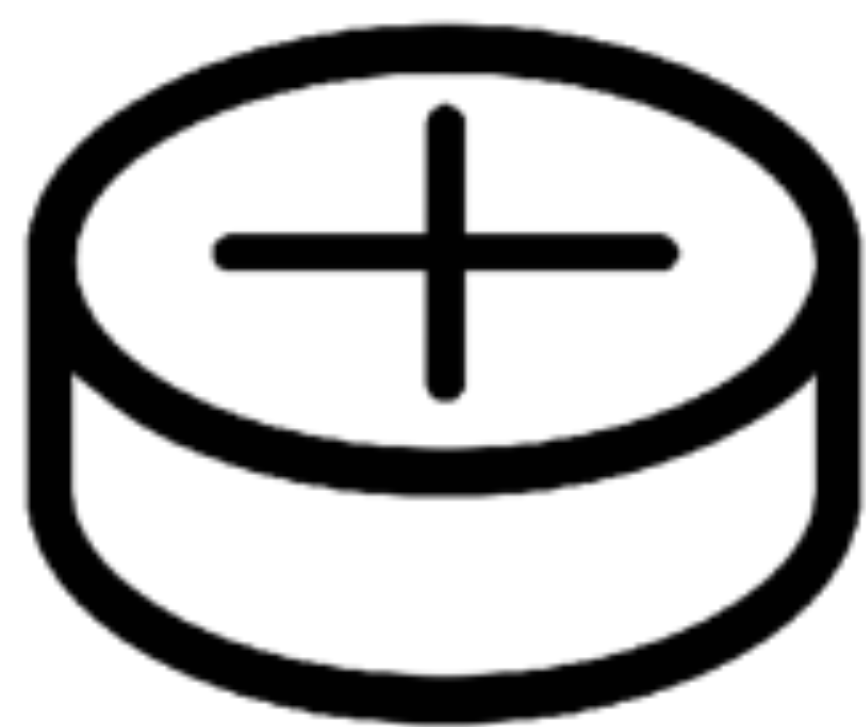
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and then...?

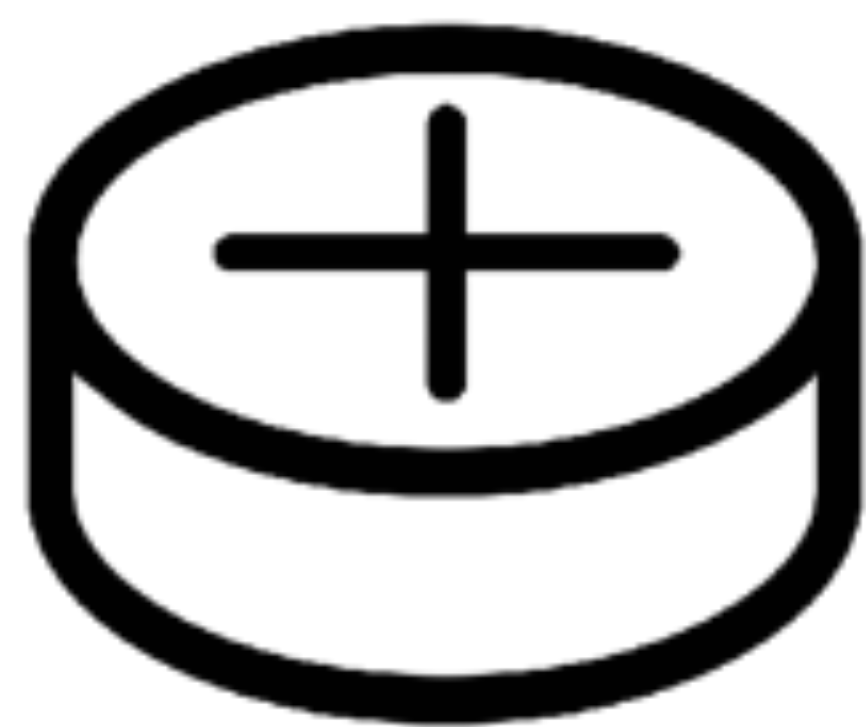




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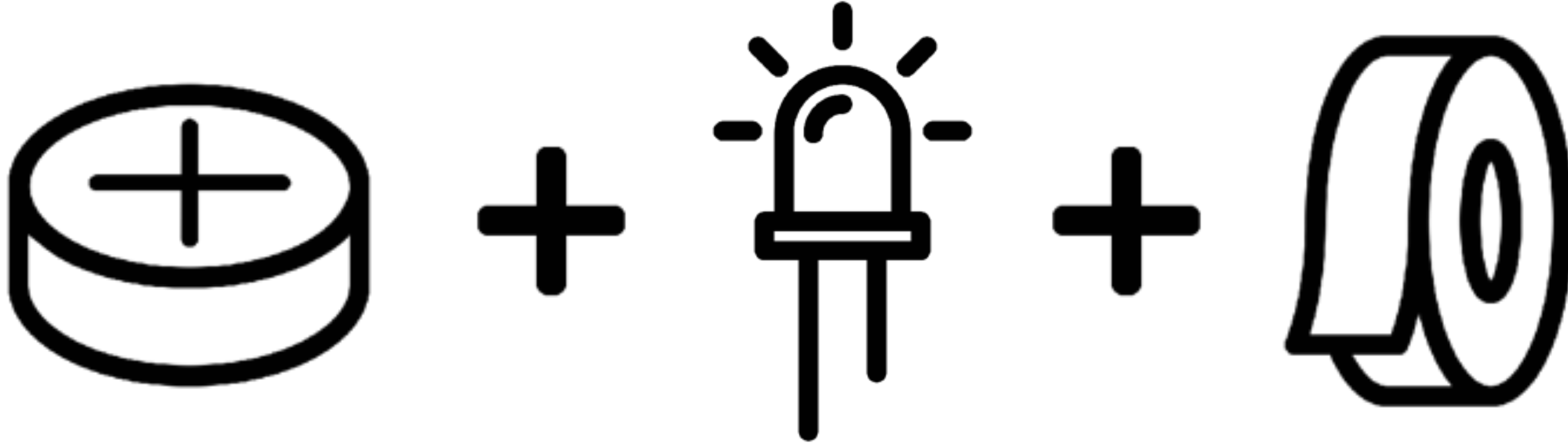
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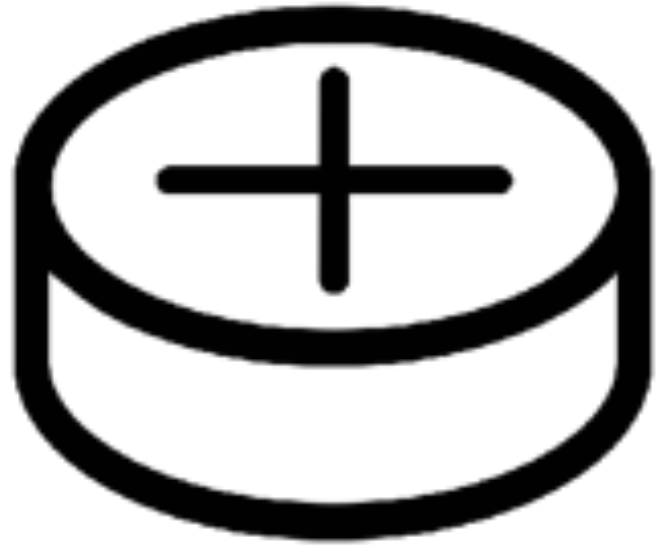
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and then...?



and then...?



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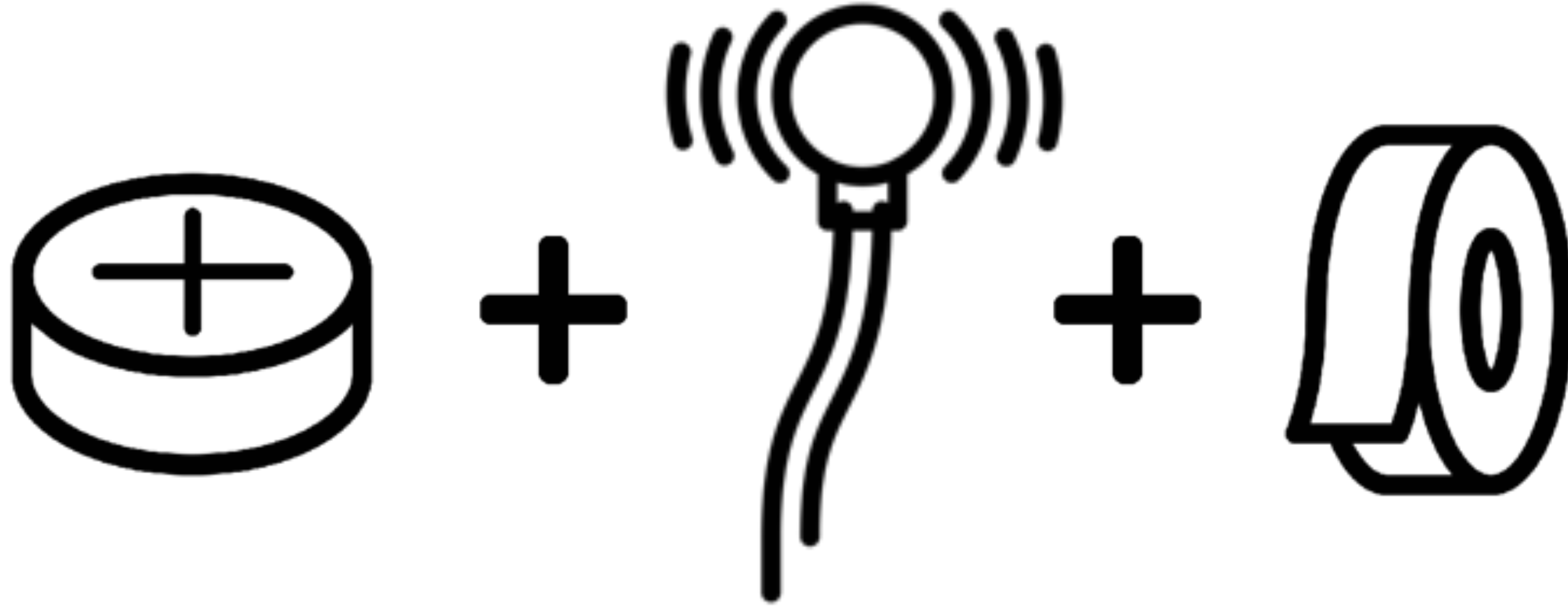
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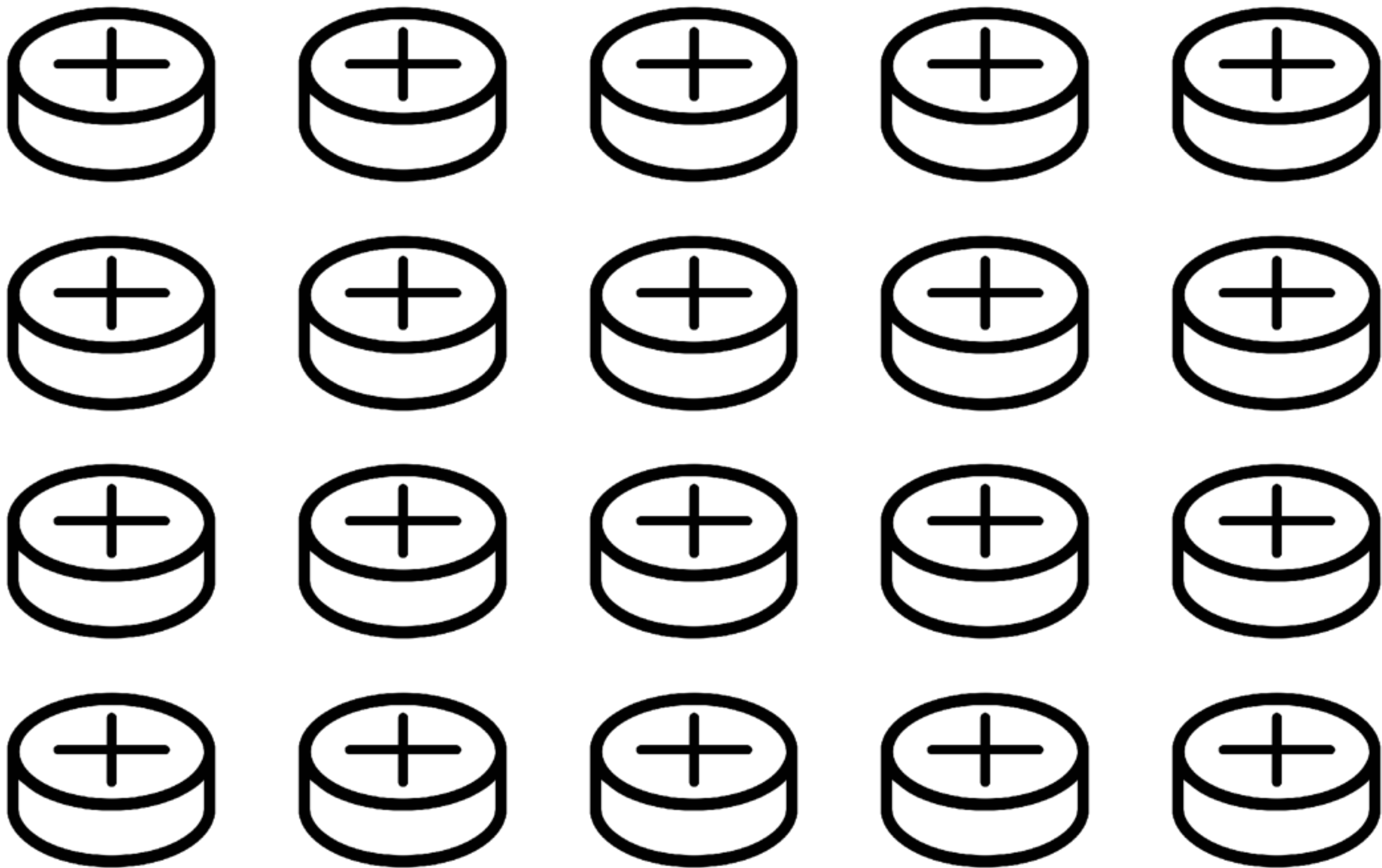


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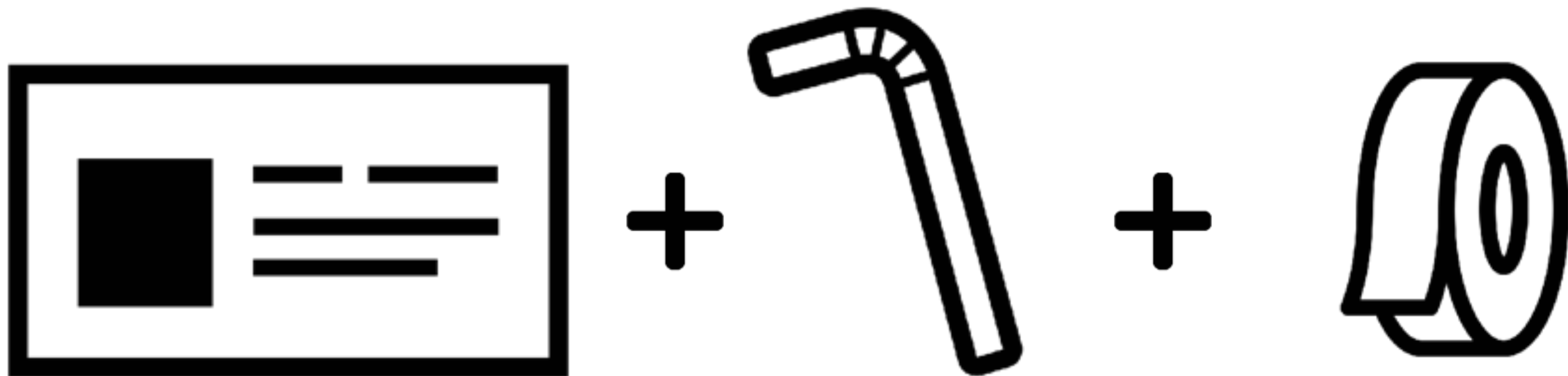


and then...?





and then...?



Challenge

Create a personally meaningful story, 90 sec video, incorporating the icon you drew and the workshop supplies.

Share

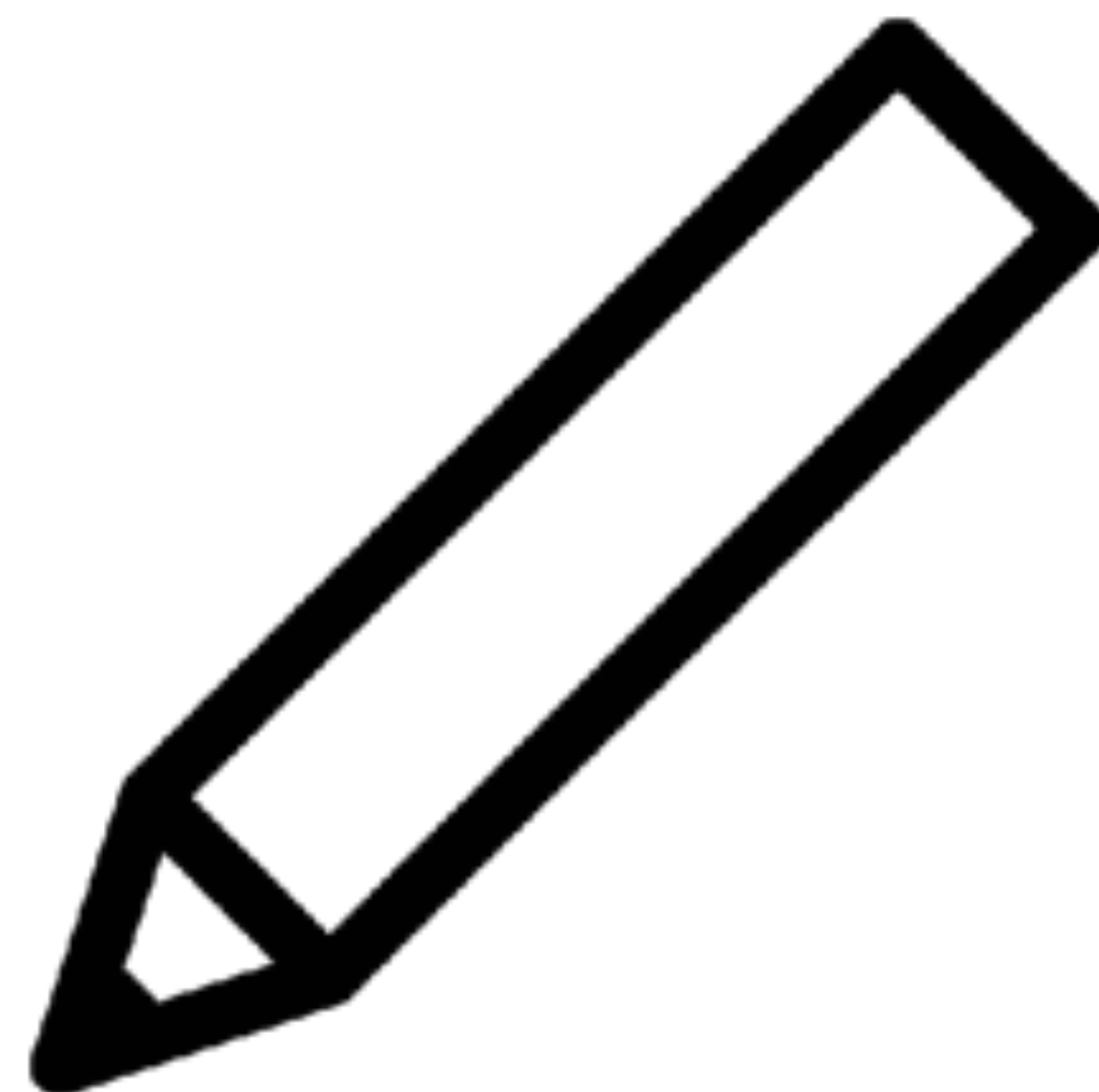
-<https://flipgrid.com/7c7127>



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**Write 1 thing you
want to take away
from this session.**

DesignMakeTeach.com/TCEA





Provide Your Feedback

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Complete this session's survey within the event in the TCEA Mobile App or visit www.tcea.org/surveys.