The background of the slide is a photograph of the Stanford University campus. On the left, the tall, white, Gothic-style Sather Tower (the Redwood Tree) stands prominently against a blue sky with scattered white clouds. In the center and to the right, there are large, multi-story university buildings with red-tiled roofs and numerous windows. A wide, green lawn in the foreground has several people walking or standing on it. The overall scene is bright and sunny.

BIOENGINEERING 100: ETHICS IN SCIENCE AND ENGINEERING

HAYLEY LAM
DEPARTMENT OF BIOENGINEERING



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ATTENDANCE FOR TODAY

RESPOND AT

PollEv.com/surveys/hcJkrOYPI

OR

POLLEV.COM/HAYLEYLAM

NOTE ABOUT ENROLLMENT

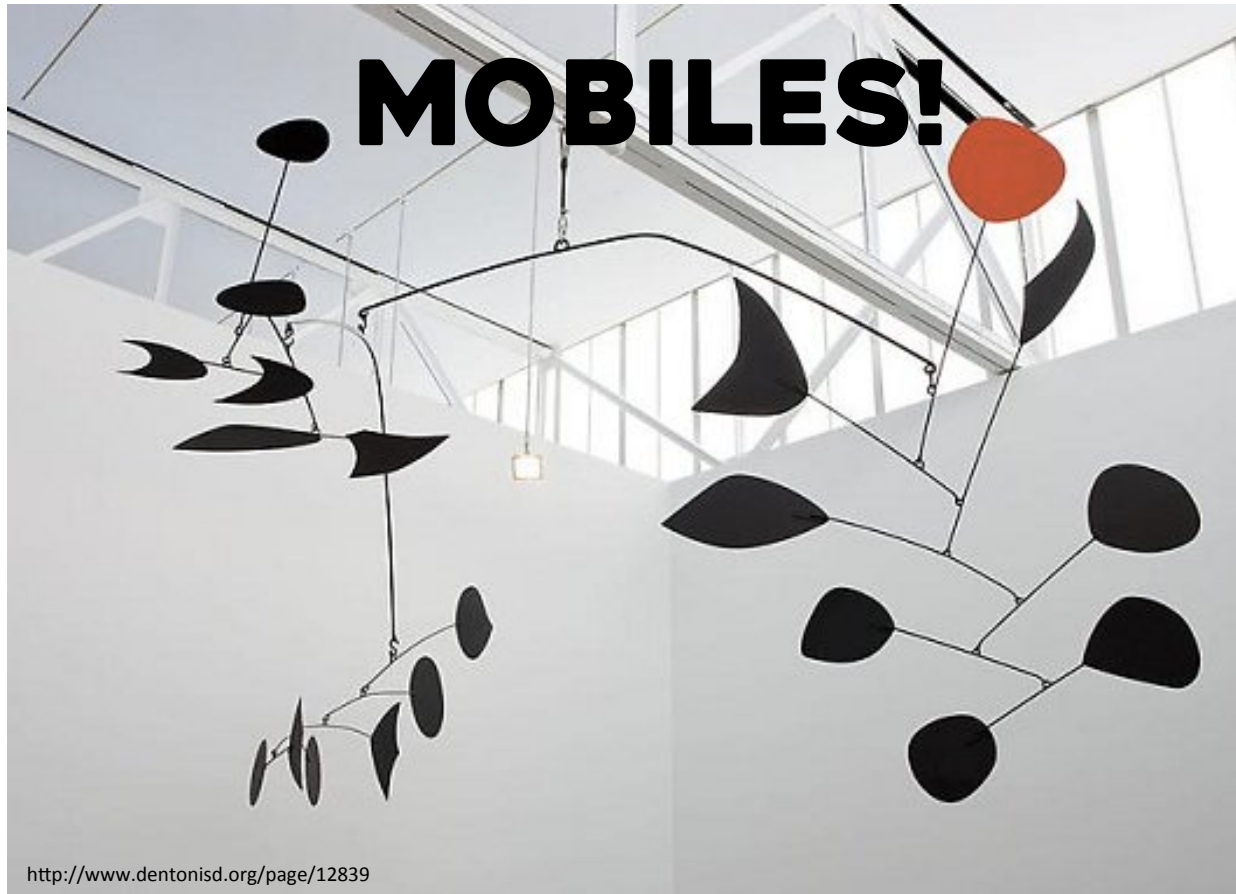
Enrolled and absent students will be dropped this week and waitlist students will be added.

GOALS FOR TODAY

- Mobiles activity
- Mobiles small group discussion
- Whole class share-out
- Why does this matter?
- Ethics in the news

MOBILES!

- Find your group. Blue deck by number, Red deck by number
- Roles:
 - Materials – Person with the darkest shirt
 - Facilitator/timekeeper – Person with the brightest shirt



<http://www.dentonisd.org/page/12839>

15 minutes to create a construction or sculpture that
can be set into motion by air or movement

TAKE A WALK AROUND THE CLASSROOM AND HAVE A LOOK AROUND

How are the mobiles similar?
Different?

SMALL GROUP DISCUSSION

- Re-sort yourselves into straight flushes
 - Red & Blue Hearts 1-4, 5-8, 9-K, etc...
- Introduce yourselves to the group
- Roles:
 - Facilitator: person with the longest hair
 - Timekeeper: person with the shortest hair

SMALL GROUP DISCUSSION

- 15 min to discuss the following questions
 1. How did you work with your group to build the mobile?
 2. What did you notice about what materials other groups had?
 3. If you were aware of it, how did it feel to have different materials than other groups?
- ALL members of each group should have the opportunity to share!!! (Facilitators, facilitate please!)

**WERE YOU AWARE THAT
DIFFERENT GROUPS HAD
DIFFERENT MATERIALS?**

**WHY DO YOU THINK WE
DID THIS ACTIVITY?**

WHAT IF THE MOBILE MATERIALS WERE A PROXY FOR KNOWLEDGE?

How does your perspective on
learning change?

**WHAT IF THE MOBILE
MATERIALS WERE A PROXY
FOR RESEARCH
EQUIPMENT? R&D BUDGET?
ACCESS TO DRUGS?**

EPI PENS IN THE NEWS



**WHAT ARE THE RIGHTS OF
THE CONSUMER?**

**WHAT IS THE DUTY OF THE
PHARMA COMPANY?**

THE “4 A’S” APPROACH TO ETHICAL DECISION MAKING [BUDINGER CH. 1]

Acquire Facts:

- Define uncertainties, clarify ambiguities- get the facts!

Alternatives:

- List alternative solutions and develop multiple plans in parallel.

Assessment:

- Assess possible solutions according to historical moral/ethical theoretical frameworks. Identify and prioritize stakeholders affected by decision. Perform risk analysis if appropriate

Action:

- Decide on plan of action; keep alternate action plans under consideration, adjust and adapt plan as new information comes to light or flexibility is needed to consider new options.