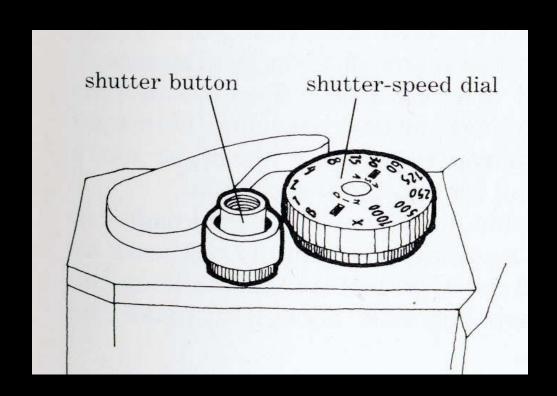
Shutter Speed and Aperture



- What do they do?
- Why do we need them?
- Adding to the 'toolbox'

Shutter speed is simply a measure of how long the shutter stays open when you take your picture.



- shutter speed is measured in fractions of seconds.
- the faster the shutter speed, the less light will hit the film.









Stop action



Blurred action



Panned action



Stop action

- subject and background are frozen
- <u>fast</u> shutter speed (1/500, 1/1000, 1/2000 second)
- peak of action



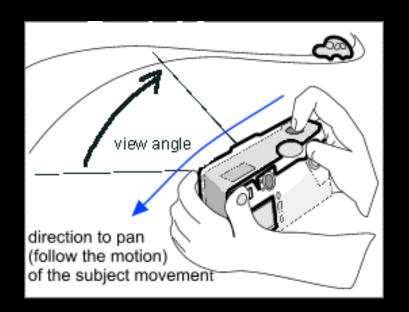
Blurred action

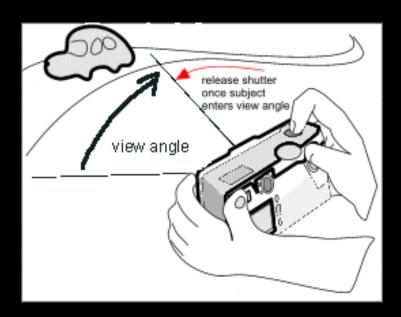
- blurred subject, frozen background
- <u>slow</u> shutter speed (1/15, 1/8, 1/4, 1/2 second)
- brace the camera!



Panned action

- frozen subject, streaked background
- <u>slow</u> shutter speed (1/15, 1/8, 1/4, 1/2 second)
- camera moves with the moving subject





Panning

Move the camera with the subject as it crosses the field of view of your camera, and you snap the shot as you move the camera with the subject.

Panning



1/60th second

1/30th second







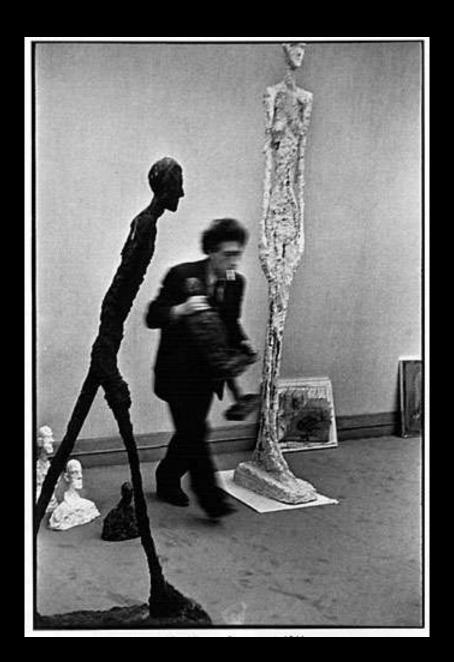


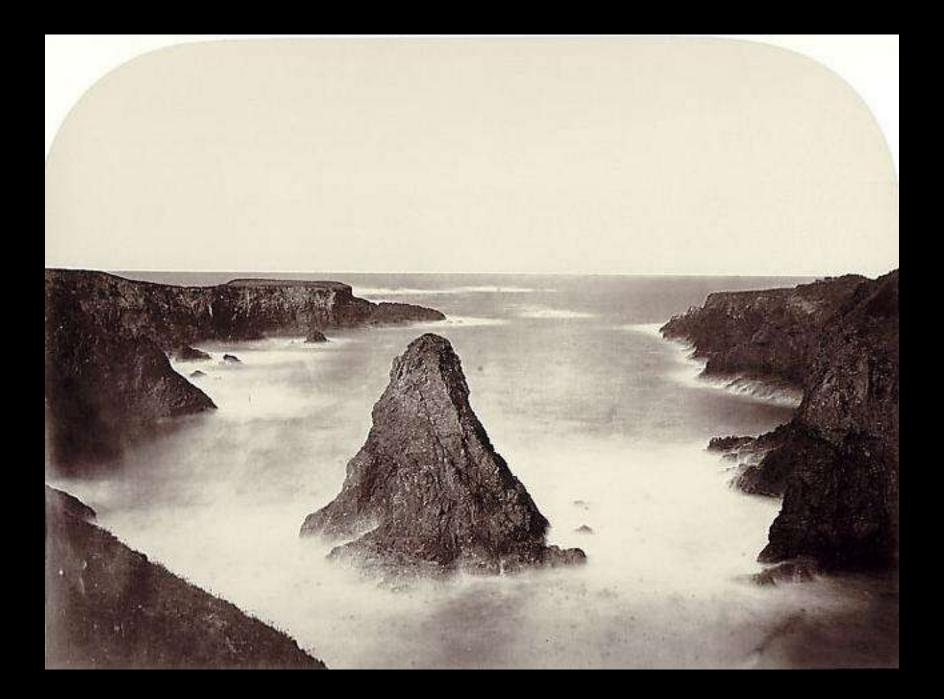


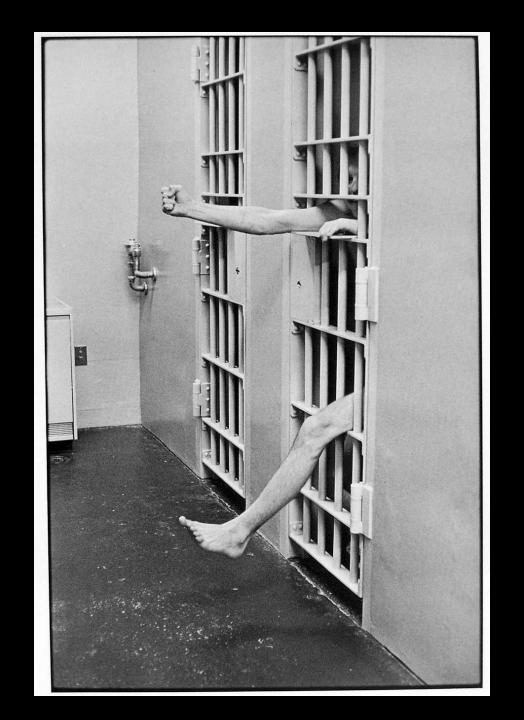














Panning





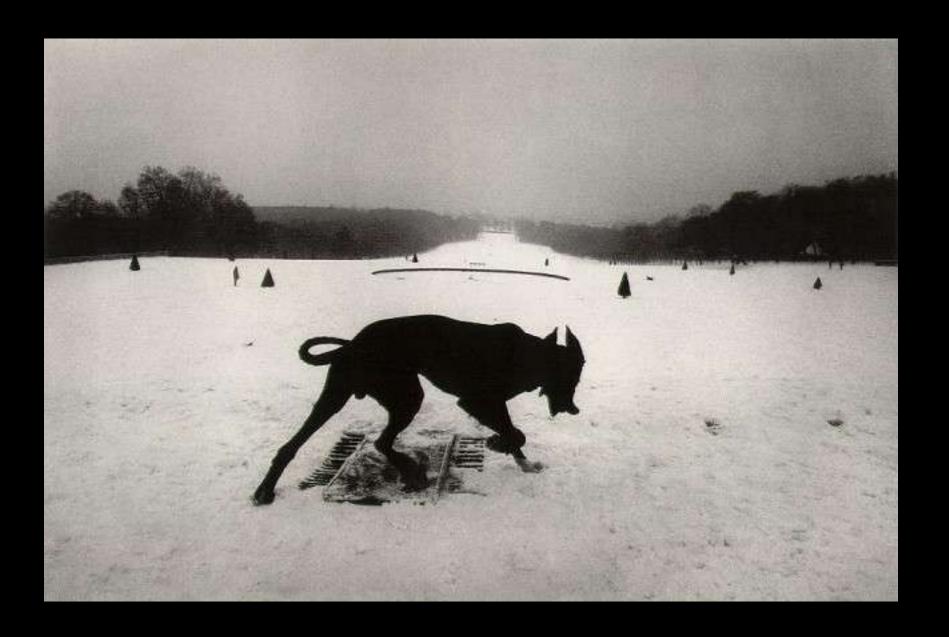




Panhandler, Manhattan



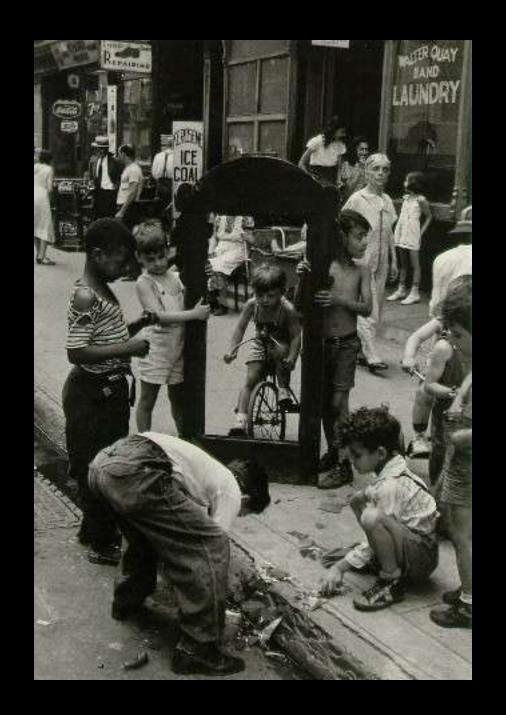










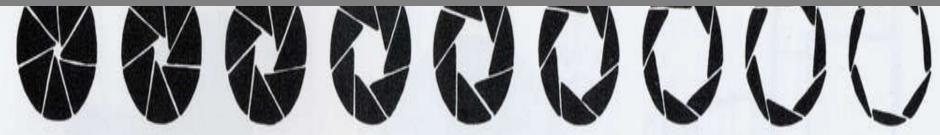






Aperture (lens opening)





Aperture size is measured in f-stops.

F-stops represent the amount of light going into the camera.

The higher the f-Stop number, the less light.

Lens aperture controls Depth of Field



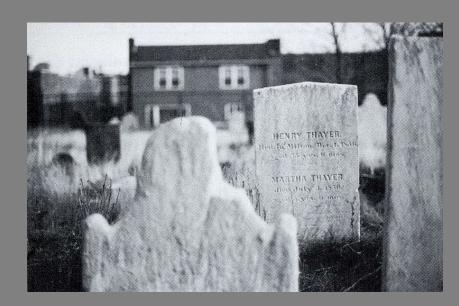
Great depth of field

large range of distances in focus



Shallow depth of field

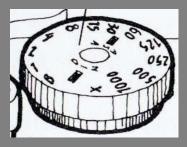
limited range of distances in focus



Aperture and shutter speed:

both control the amount of light that reaches the film for an exposure

The faster the shutter speed is, the less light will hit the film.



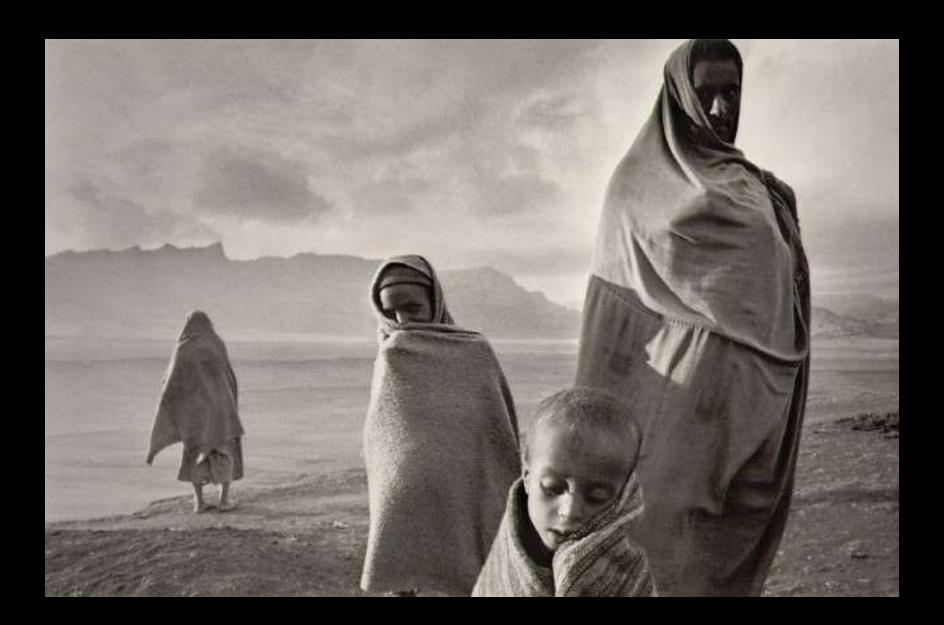
2 4 8 15 30 60 125 250 500 1000

The higher the f-stop number, the less light will hit the film





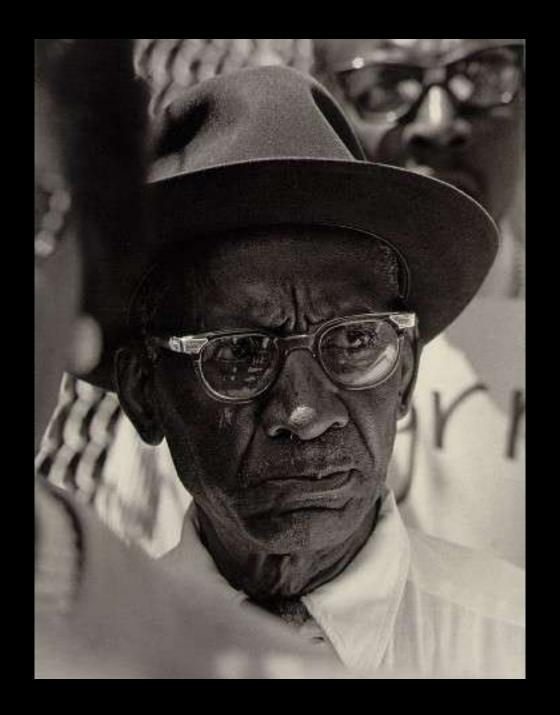








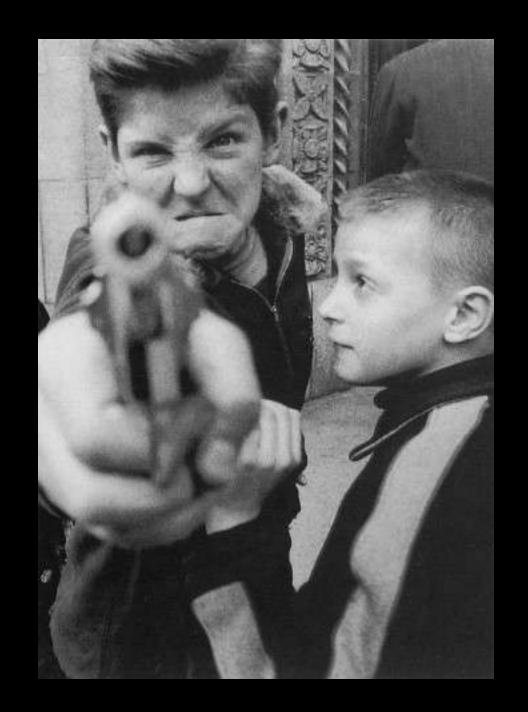




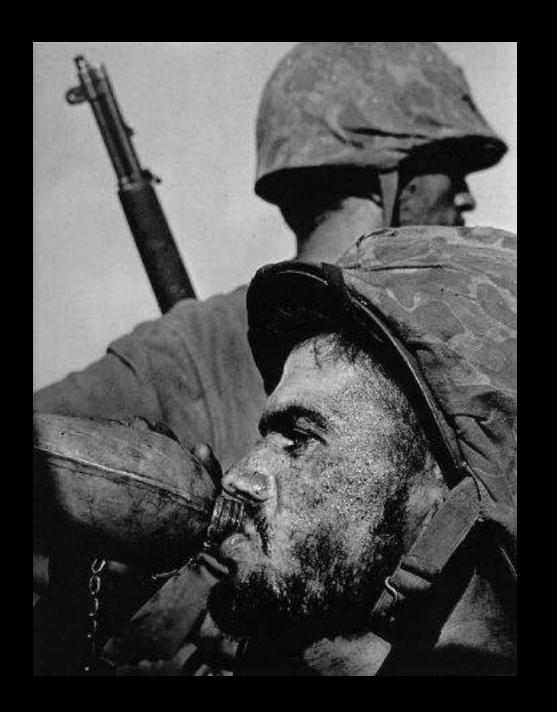






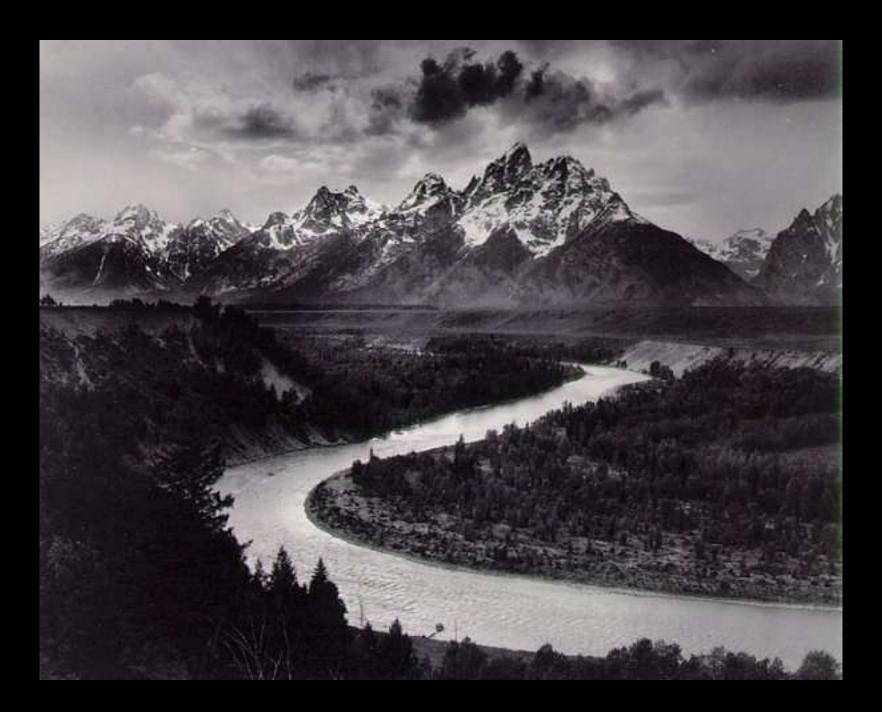


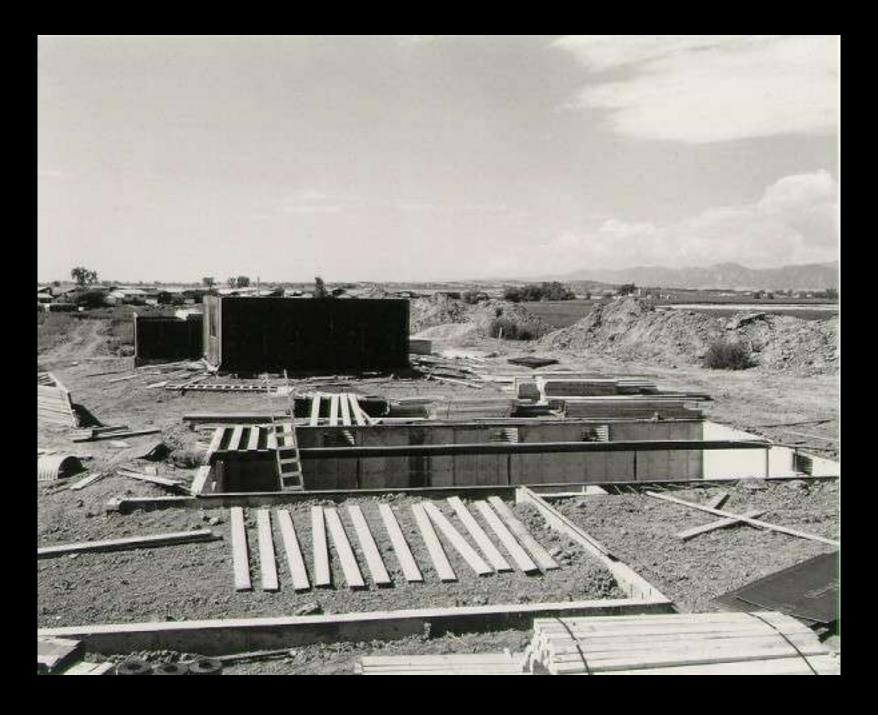




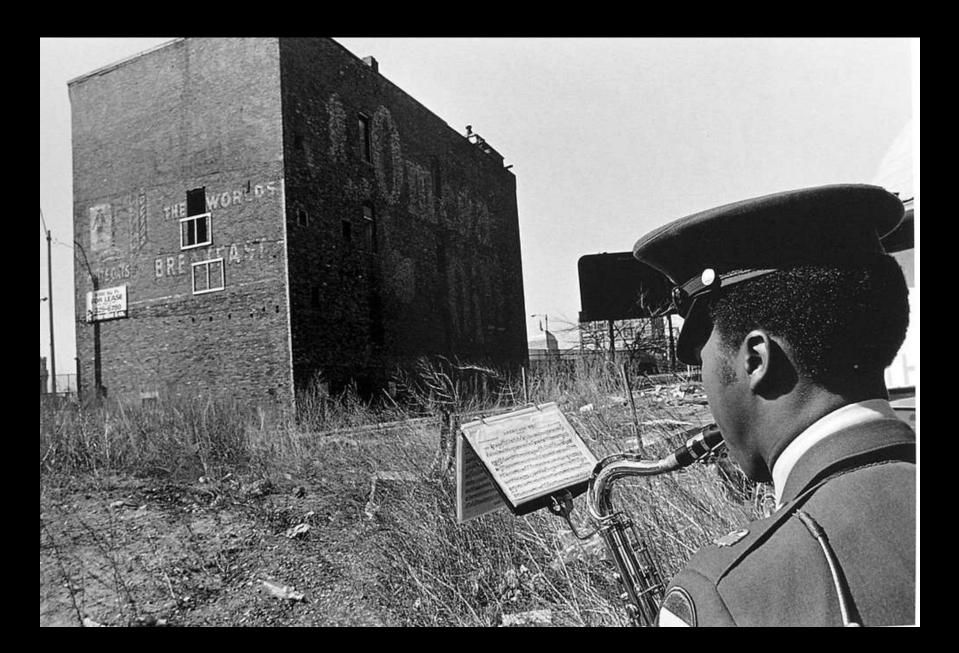












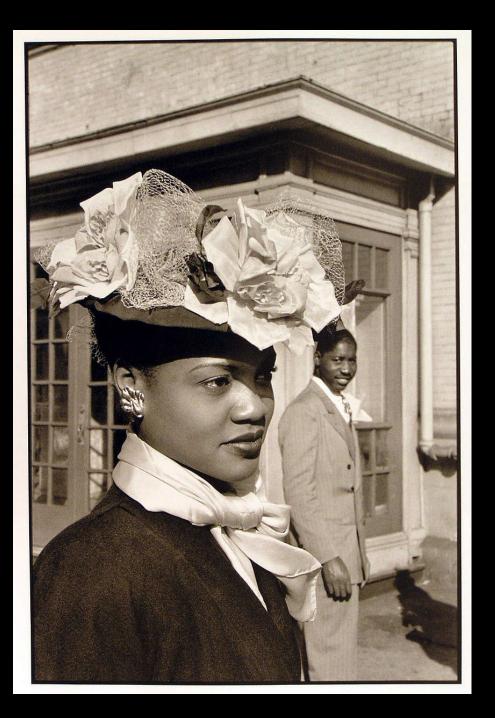








Photo Narrative

Make a series of photographs that depict a scene or event which could be real or imagined.

Turn in three photographs in a narrative series.

- •One photo must show stopped action using a fast shutter speed.
- •One photo must show blurred action using a slow shutter speed.
- One photo must show panned action using a slow shutter speed.

Each image must represent the beginning, middle, or end of the series.

















Duane Michals- The Human Condition





Duane Michals- *I remember the argument*





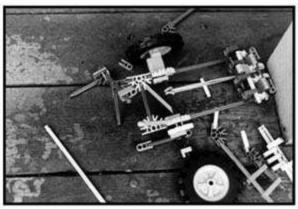


























Student work – San Francisco University High School