

Activity

1. 10 common products found at home with at least 2 parts

a. cell phone

f. Pencil

b. thumb drive

g. watch

c. stapler

h. headphones

d. backpack

i. phone case

e. pen

J. hand sanitizer bottle

2. 2 products to bring into class

#1 - Pen

#2 - Phone case

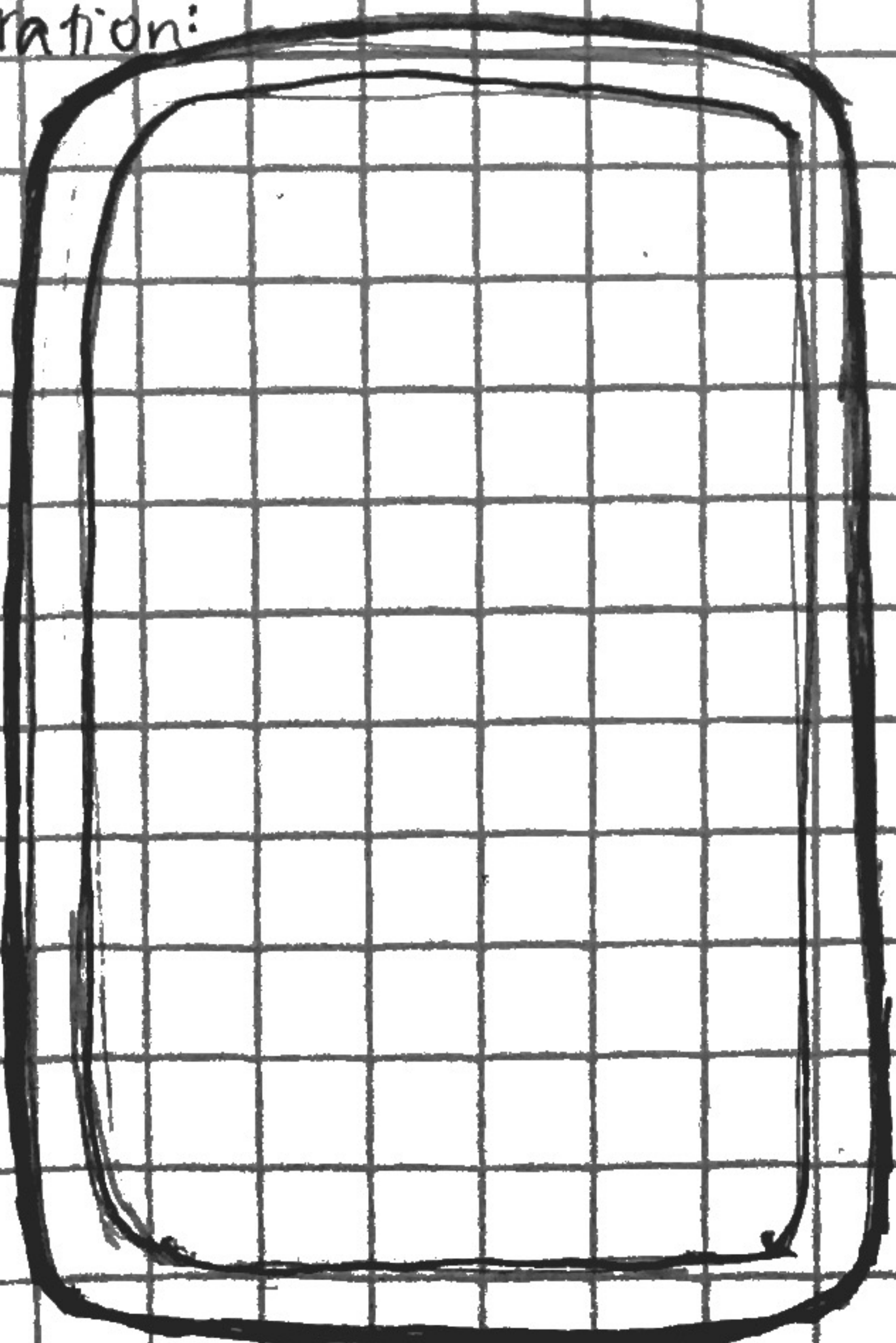
3. Functions and properties of products

#1 - (Pen) to write with permanent ink

#2 - (Phone case) to protect my phone from breaking or cracking

4. Product #2 illustration, detailed info relating to function, operating procedure, operating environment, cost, manufacturing origin, and product life cycle

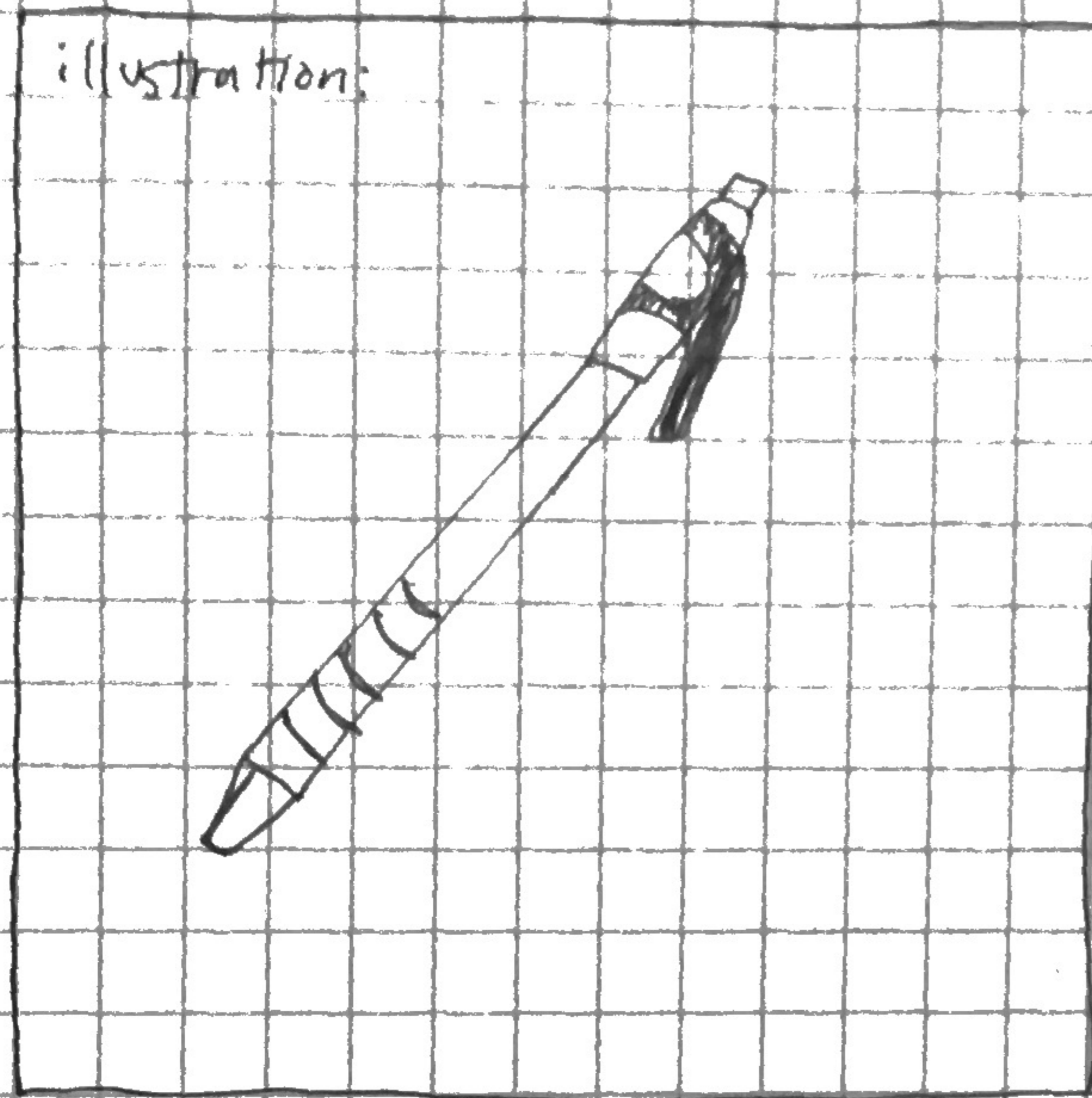
illustration:



Description:

This phone case is transparent with a blue sort of bumper on the outside. I put it on my phone to protect it from scratches and if it would fall it won't crack. It cost like \$10. I ordered it on amazon. Recyclable

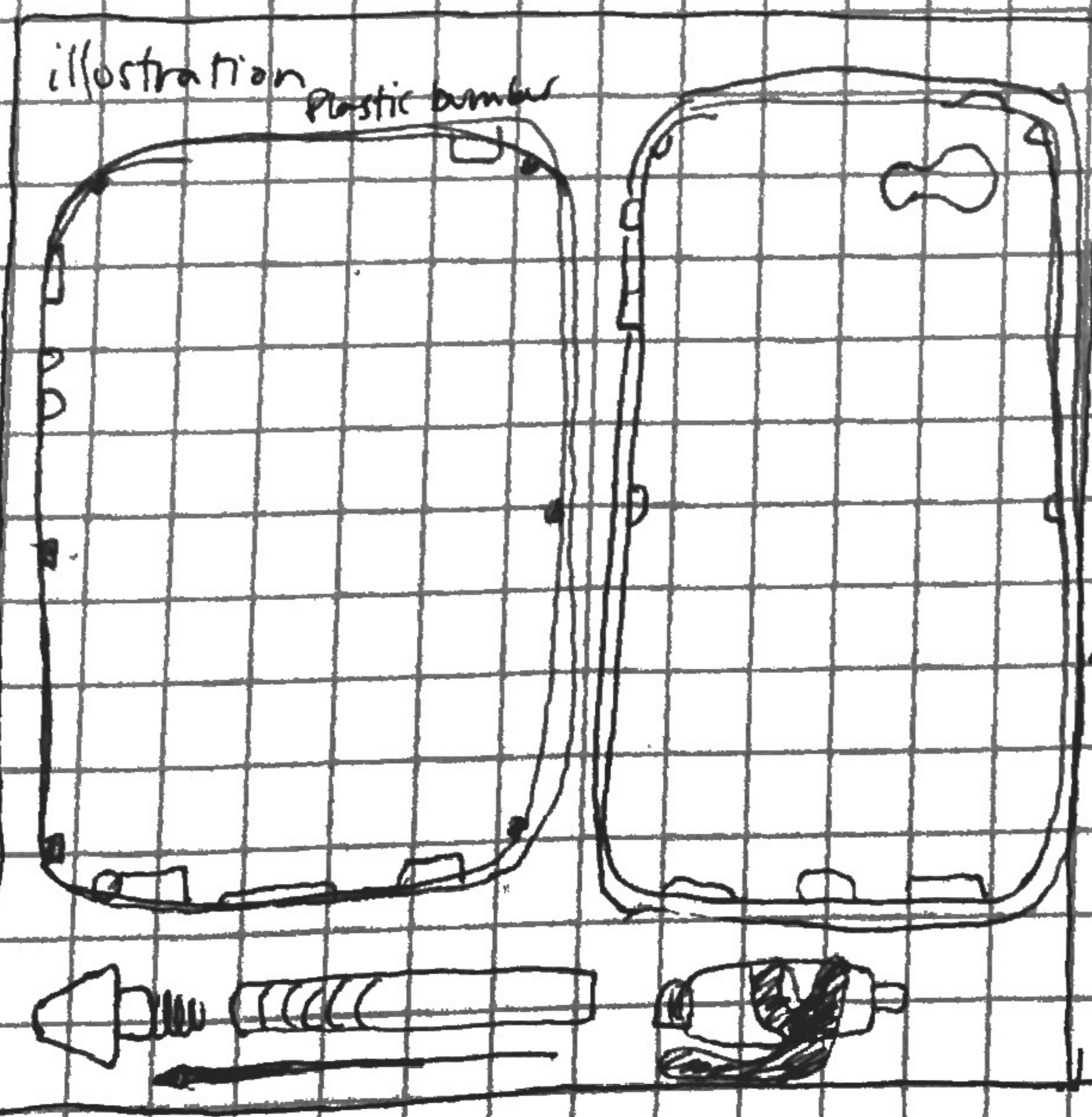
78 5. Product #2 illustration, detailed info relating to function, operating 3P/4P procedure, operating environment, cost, manufacturing origins, and product life cycle



Description:
 This pen is used to write on almost anywhere, especially paper. Permanently ~~the ink will~~ Only cost around \$1-2
 Made by paper mate. 55% recyclable

6. Disassemble product

7. sketch and describe all product components, Detailed info relating to component interaction and function within the product



Description:
 The plastic bumper goes outside the case. They lock with little holes and squares.
 The point of the pin connects to the middle part. That has the ink inside, then the middle part screws to the cap and the clicker/pusher.

pen's bumper 3P/4P

8. Select 2 components from each product to investigate further
- | | |
|-----------------------------|-----------------------|
| Product #1 components | Product #2 components |
| 1. Plastic bumper | 1. cap |
| 2. Plastic transparent case | 2. middle part |

Activity continued

9. Further examine parts

~~Product #1 component #1~~

#1¹ - bumper
#1² - case

#2¹ - cap
#2² - middle part

#1¹ Continuity: Can't conduct electricity

#1² Continuity: Can't conduct electricity

#2¹ Continuity: ↓↓

#2² Continuity: ↓↓

#1¹ Not magnetic

#1² ↓↓

#2¹ ↓↓

#2² ↓↓

#1¹ Hardness: Can be scratched

#1² Can be scratched

#2¹ ↓↓

#2² ↓↓

#1¹ weight: 4g

#1² weight: 17g

#2¹ weight: 2.5g

#2² weight: 1.5g

~~#1¹ Volume:~~

~~#1² Volume:~~

~~#2¹ Volume:~~

~~#2² Volume:~~

#1 Hand flexure: Not permanently deformed

#1² ↓↓

#2¹ ↓↓

#2² ↓↓