

CHAPTER 2

ENCODING INFORMATION



5 MIN



CLASS

What is your definition of Information?

Example of information : texts, numbers, status on Facebook, books, videos, music, student grades, etc.



5 MIN



2

Find a way to communicate **numbers 0 and 1**

1. Explain the **communication rule**
2. **Do** the sign
3. Ask your partner to **guess** the sign



- *You can use only given material*
- *No projectiles.*
- *You cannot talk*
- *You cannot write*



5 MIN



2

Find a way to communicate **numbers 1, 2, 3, 4**

1. Explain the **communication rule**
2. **Do** the sign
3. Ask your partner to **guess** the sign



- *You can use only given material*
- *No projectiles.*
- *You cannot talk*
- *You cannot write*



Find a way to communicate **numbers 1 to 16**

1. Explain the **communication rule**
2. **Do** the sign
3. Ask your partner to **guess** the sign



- *You can use only given material*
- *No projectiles.*
- *You cannot talk*
- *You cannot write*



Congratulations !

You just **invented** your own system for counting !

- ✓ How many **objects** did you need ?
- ✓ How many **actions** did you need to express a number?



10 MIN



1



CLASS

Find a new way to represent the number 7

VII

Example of representation

①

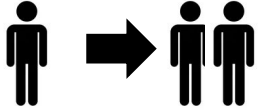
Find your way

②

Draw your solution on whiteboard



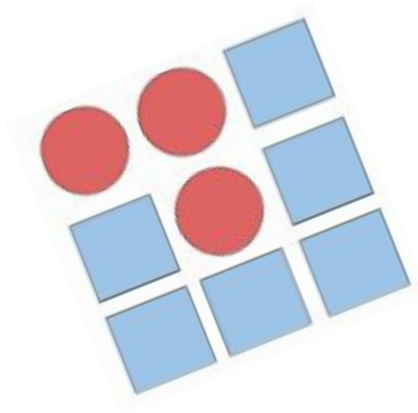
45MIN



1

2

Circles and squares patterns





INDIV

Prepare a presentation (on paper or computer)

How would you **explain a number system**
to someone who had **never seen numbers before?**