PRIMO ISTITUTO SUPERIORE ARCHIMEDE ROSOLINI CLIL IN DUBLIN 22- 28 MAY 2016

" MY BEST TEACHING EXPERIENCES "
For a 20 students class,
Italian Technical Secondary School, 18 years old

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- 1. LEAD-IN ACTIVITY
- 1.1 PRATICE (4 minutes, in pairs, kahoot)

Working in groups of two state whether the following sentences are true or false

- When dividing a circle by eight parts, each of the angles measures 90 degrees

☐ true ☐ false

- A code is a way to represent an information in a unique mode trough appropriate symbols □ true □ false

TAXONOMY

1.2 VOCABULARY (30 minutes, in pairs)

1.2.1 Match the terms in the left column with definition on the right

1	basic unit of information which can
	have only one of two values,
2	there is one and only one
3	motion that proceeds in the opposite
	direction as a clock's hands
4	a region of a circle bounded by two
	radii
5	The figure formed by two rays sharing
	a common endpoint
_	at a greater distance from the centre of
6	the inside
7	25% or 0.25
8	one of eight equal parts of a whole
	motion that proceeds in the same
9	-
	direction as a clock's hands
10	located on the inside of something

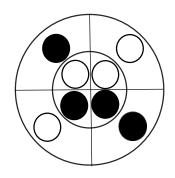
А	Sector	
В	Outer	
С	Quarter	
D	Eighth	
Е	Angle	
F	Anticlockwise (ACW)	
G	Inner	
Н	Clockwise (CW)	
I	Unique	
L	Bit	

1.2.2 Assessment

REMEMBERING

		_		
	BRAINSTORMING SESS	CREATING		
2.2 Assessment				
3. CLOZE TEST (10 min	nutes, in pairs)	APPLYING		
3.1 Read the text below table	v, fill in the gaps with ap			
Binary	Angular	Anticlockwise		
Rotary encoder				
	ncoder is an electro-me to acode.			
corresponding respective	on the right a simplified ely to the inner ring and or creasing As y			

Inner ring	Outer ring	Angle	
	\bigcirc	0° to 90°	
		90° to 180°	
	\bigcirc	180° to 270°	



4. Production (10 minutes, in pairs)

There are four ways (A-D) to complete the sentences below. Which ones are correct?

Absolute encoders ...

A measure the disc velocity B code the disc position

C rotate according to a code D provide analog signal

One 2-bit rotary encoder ...

A provides 4 sectors B provides 2 sectors

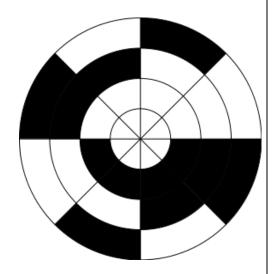
C provides 4 circles D provides 2 circles

UNDERSTANDING

5. PRODUCTION (20 minutes, in pairs)

Observe the encoder with 3 circles and fill table with black and whites balls and complete angles

Inner	Middle	Outer	Angle
			0° to 45°
			45° to 90°
			90° to 135°
			135° to 180°
			225° to 270°



APPLYING