SCIENCE IN THE PREHISTORIC PERIOD

INDEX

- ► Experimental archeology.
- ▶ Prehistoric bows and arrows.
- Fire skills.
- ► Marrow lamp.
- Painting skills.

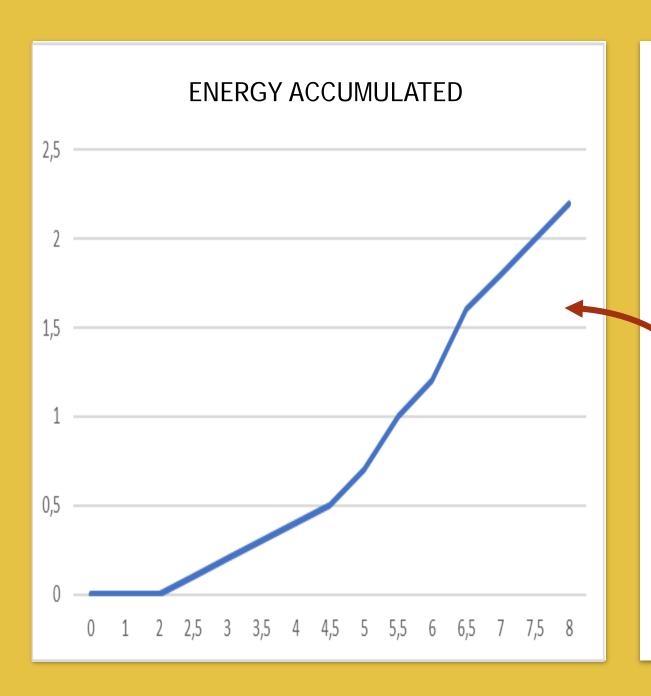
EXPERIMENTAL ARCHAEOLOGY

It is a field of study which employs modern methods and techniques in explaining why and how did prehistorical tools worked.

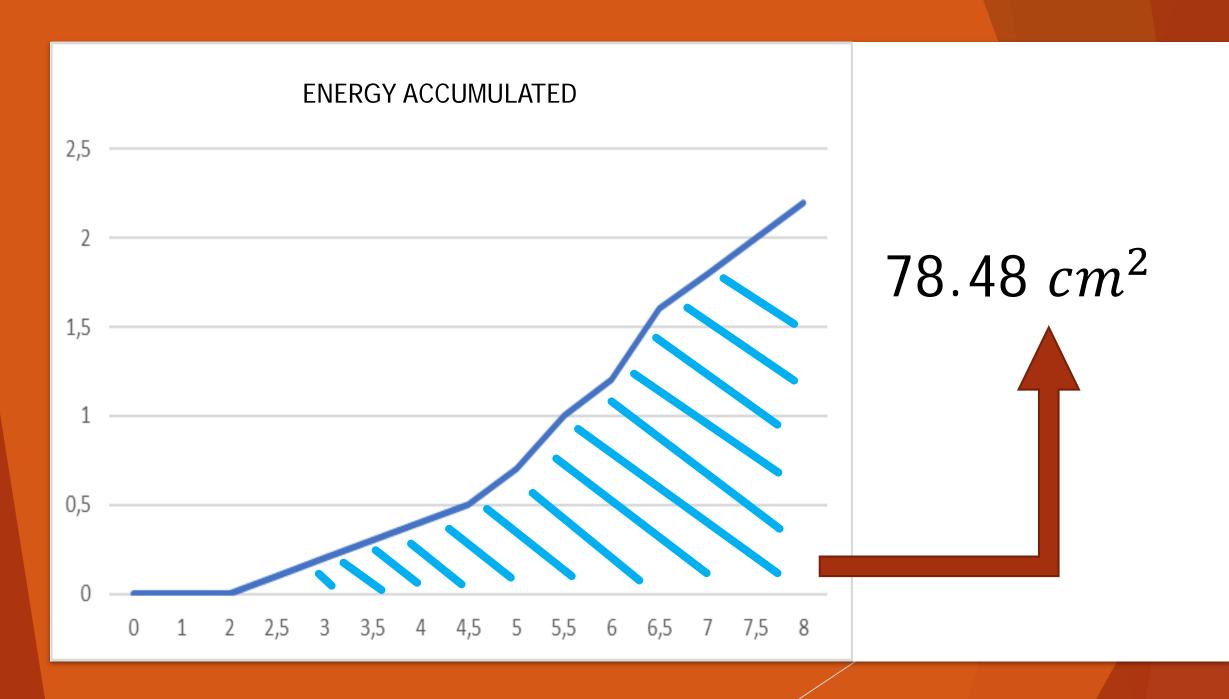


HYPOTHESIS

The further we want to throw the arrow, the more we have to tight the rope of the bow.



Newtons	cm
0	0
0	1 2
0	2
0,1	2,5 3
0,2	3
0,3	3,5
0,4	4
0,5	4,5
0,7	5
1	5,5
1,2	6
1,6	
1,8	6,5 7
2	7,5
2,2	8



PROCESS

$$78,48 \cdot 10^5$$
 = $7,848 \cdot 10^6 Erg$ Tighting the rope until 8cm

$$Ec = \frac{1}{2} \cdot m \cdot v^2$$

$$7,848 = \frac{1}{2} \cdot 2 \cdot v^2$$

TIME

$$h = \frac{1}{2} \cdot g \cdot t^2$$

$$1 = \frac{1}{2} \cdot 9.8 \cdot t^{2}$$

$$t = 0.45 s$$

DISTANCE TRAVELLED

$$X = V \cdot t$$

$$X = 28,02 \cdot 0,45$$

$$X = 12, 60 \text{ m}$$

RESULTS

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8 \text{ cm} = 12, 60 \text{ m}
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$$5 cm = 5,043 m$$

$$4 cm = 3,41 m$$

CONCLUSION



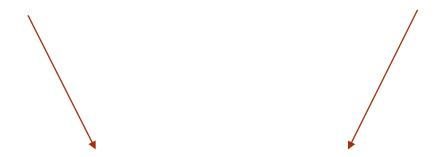


HYPOTHESIS

Fire can be obtained by friction







ways in which energy appears



MARROW CANDLE

TYPES OF THREAD



Lichens



Bark



Moss



Herbs

HYPOTHESIS

Marrow lamps worked because of marrow's combustión.

CAPILLARITY







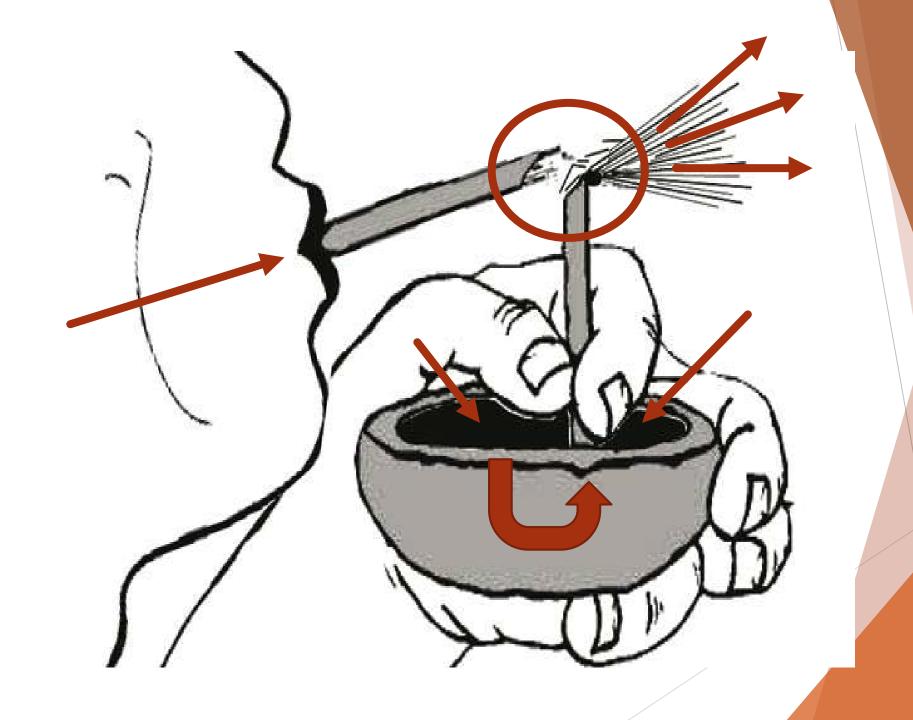
BERNOULLI'S PRINCIPLE

Higher speed

Higher pressure



Daniel Bernoulli (1700-1782)



THANKS FOR YOUR ATTENTION