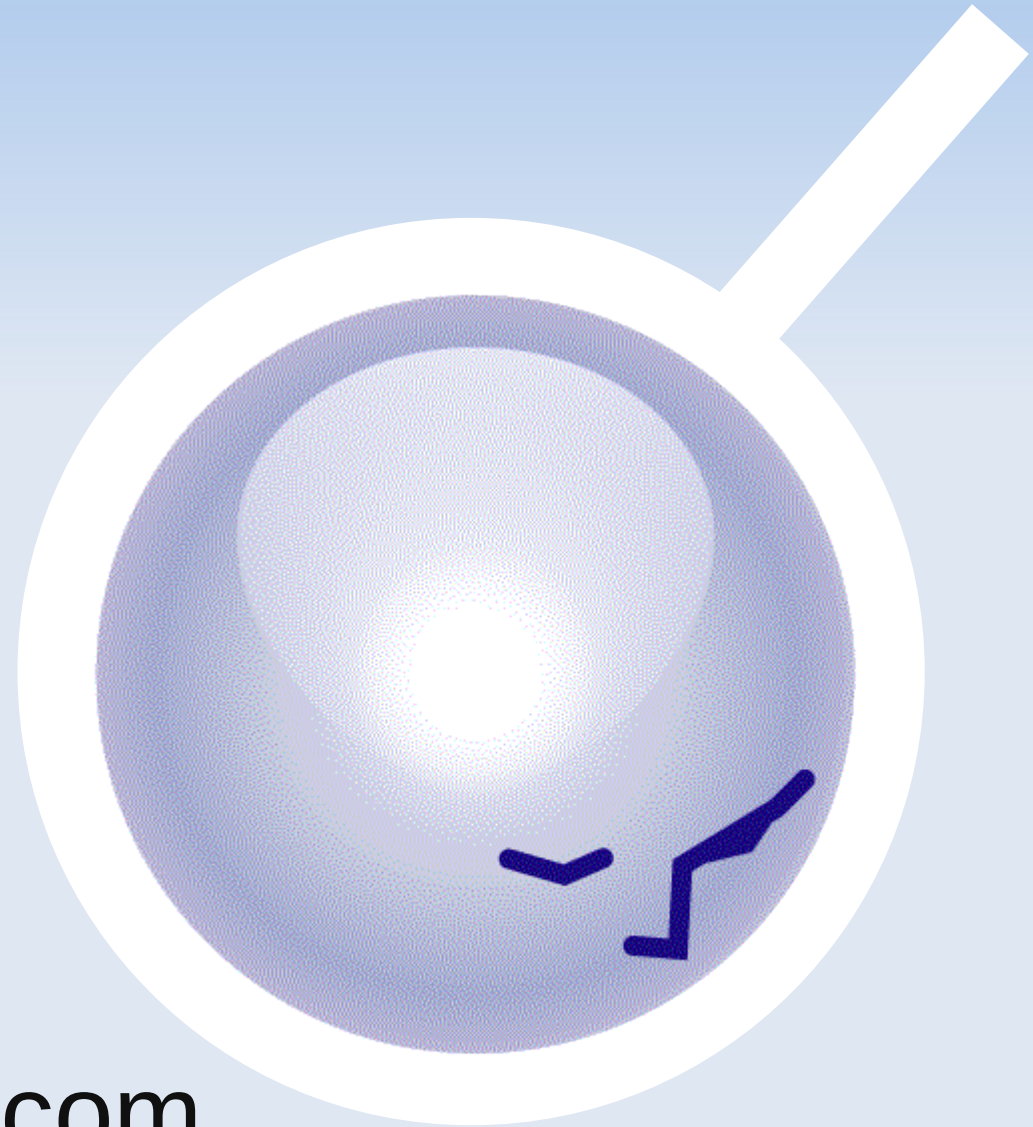# Pyramid Construction Made Easy

Darcy Whyte
GeneralSocial
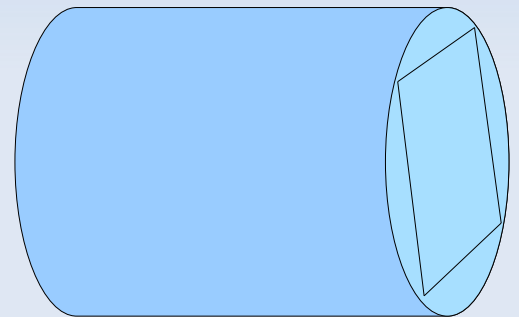613.563.3634
darcy@siteware.com

Khufu

- Construction: 2589 B.C. 20 years.

- 2,300,000 blocks, 6.5 million tons (590,712 Socrates G. Taseos, 7,016,280? other sources vary).

- Average weigh 2.5 tons. None <2 tons. King's Chamber blocks >9 tons. Average (5x8x12)

- Base/Height 754'x481' (now 745'x449').

- Slope 51 deg. 51 min, 201 steps
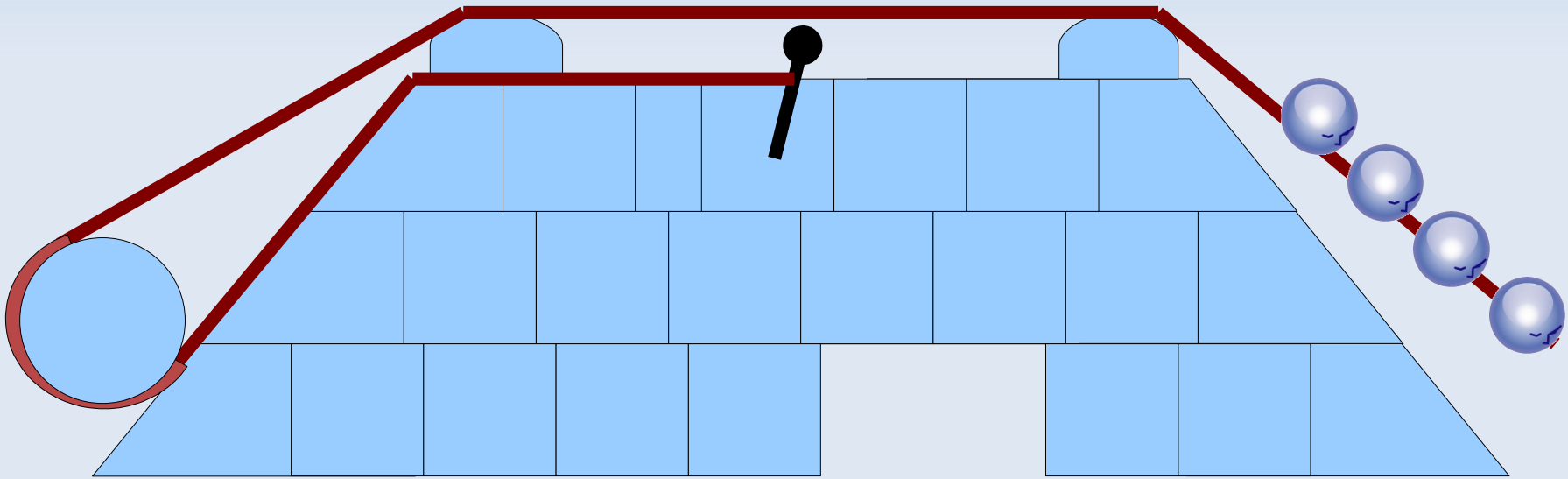
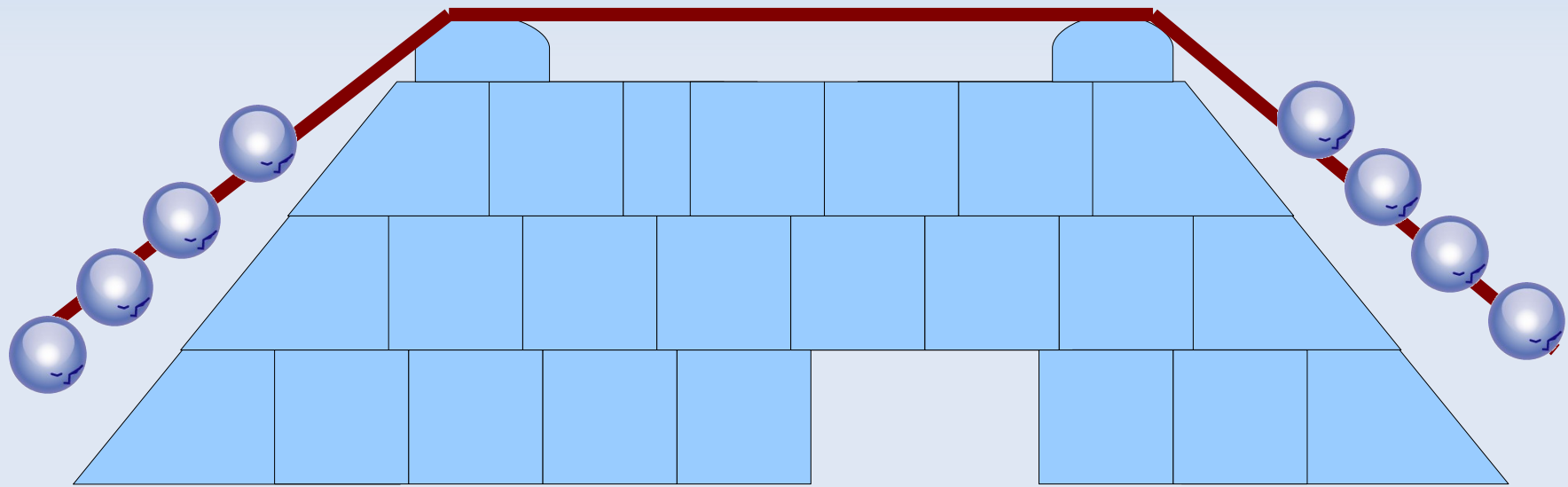http://www.world-mysteries.com/mpl_2.htm
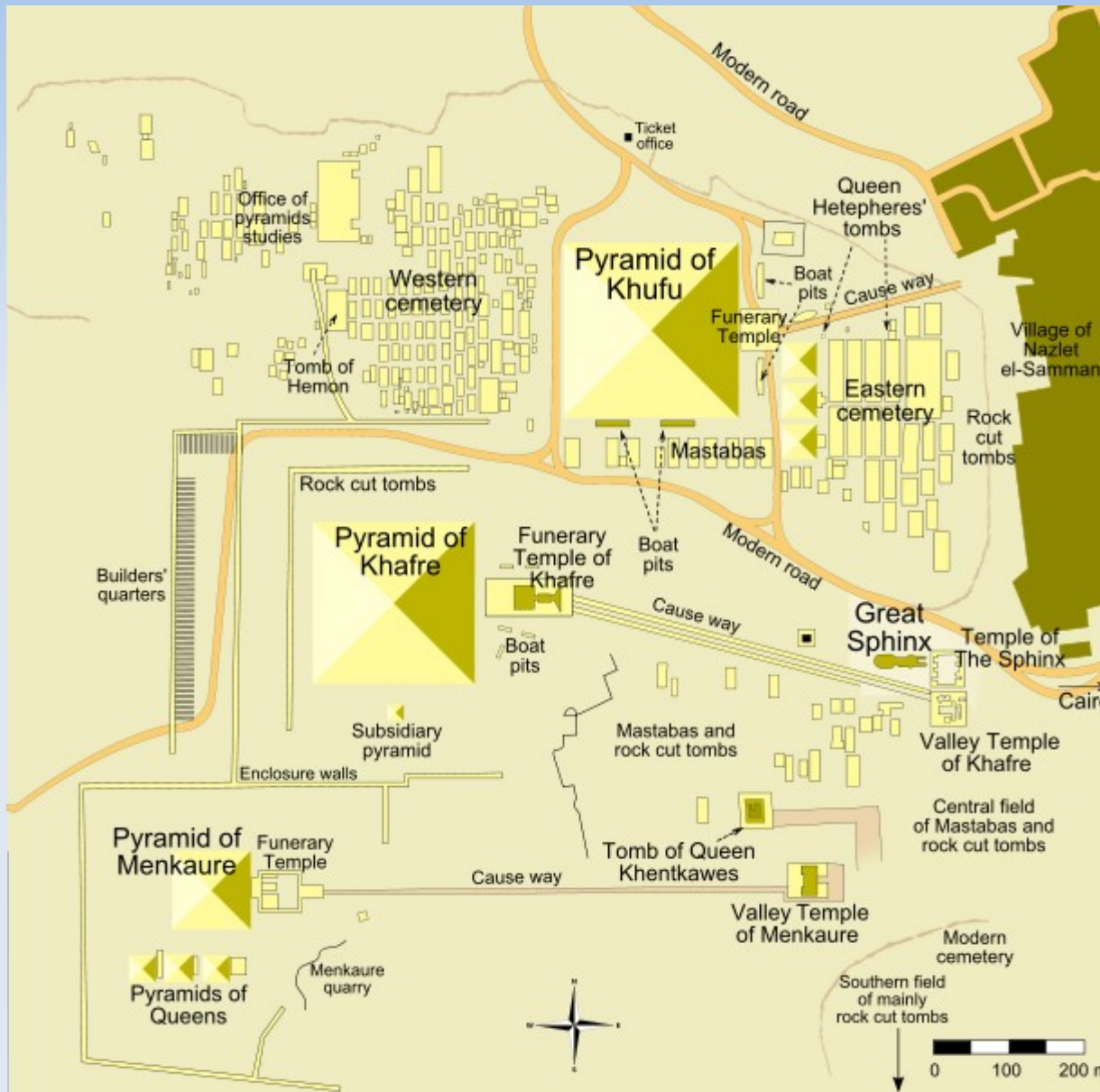
Block Preparation
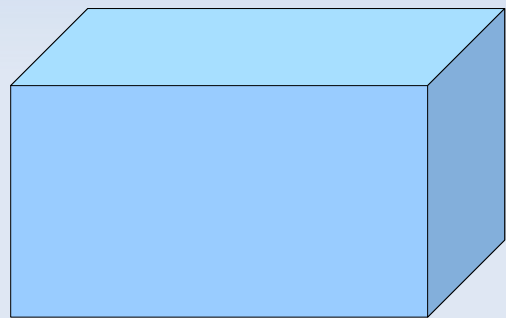
+ Wood
Rope
=

Lift

Shift Change

Work Site

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Calculations
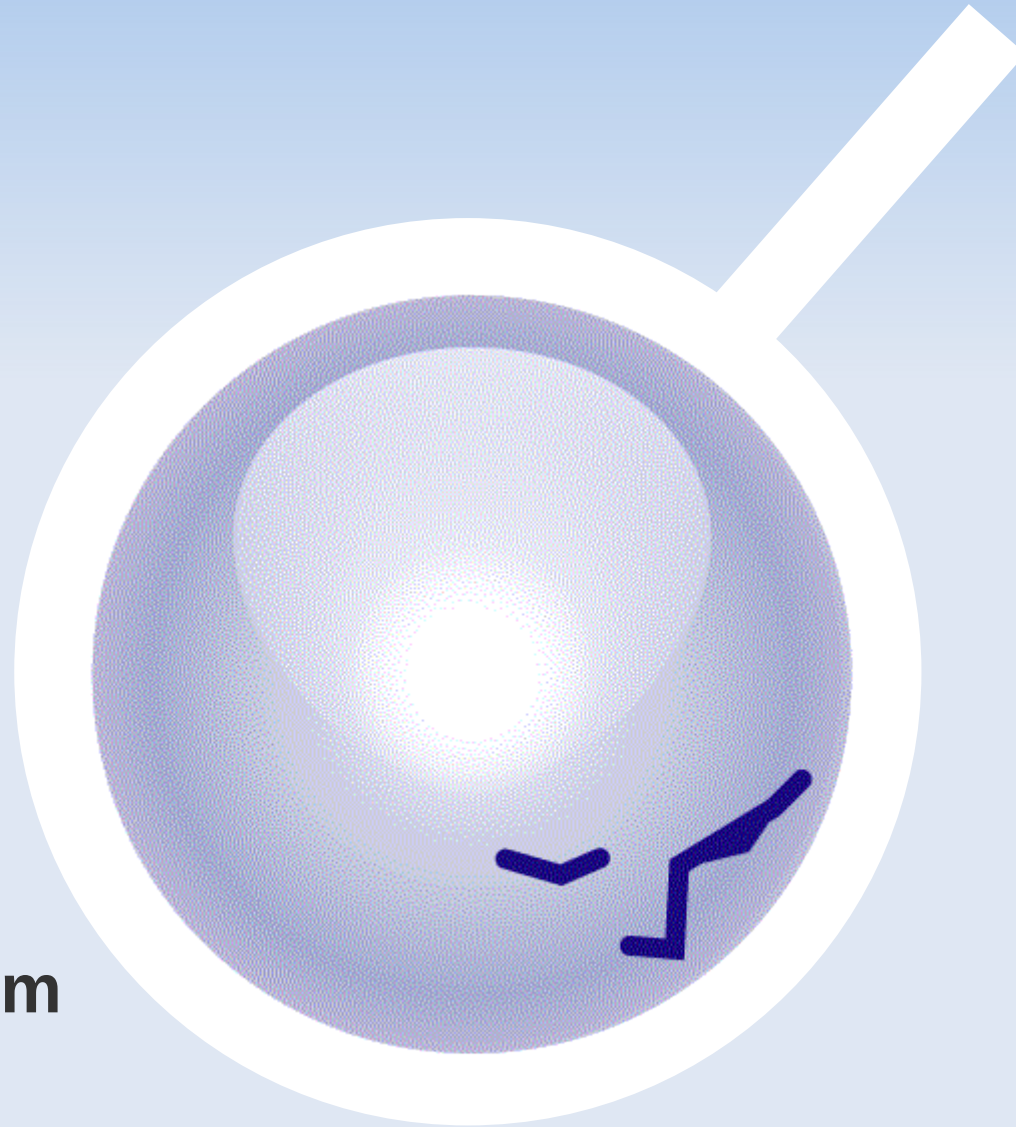
- **Vol:** $(b^2h)/3$ = 91,152,065 ft³ =2,581,139 m³
- **Mass:** 5,955,000 tonnes = 11,910,000,000 lb
- **Density:** 131 lb/ft³ = 2g/cm³ (Sandstone 2g/cm³)
- **Work:** 1,432,177,500,000 ft lb (h/4 = 120.25')
- **Food:** 463,895,064 kcal = 3,092,633 Twinkies
- **Human:** 2000 cal/day → 231948 person days
- 20 years at 10% efficiency → 317 (lifters)
- 10 years at 10% efficiency → 634 (lifters)

Rope
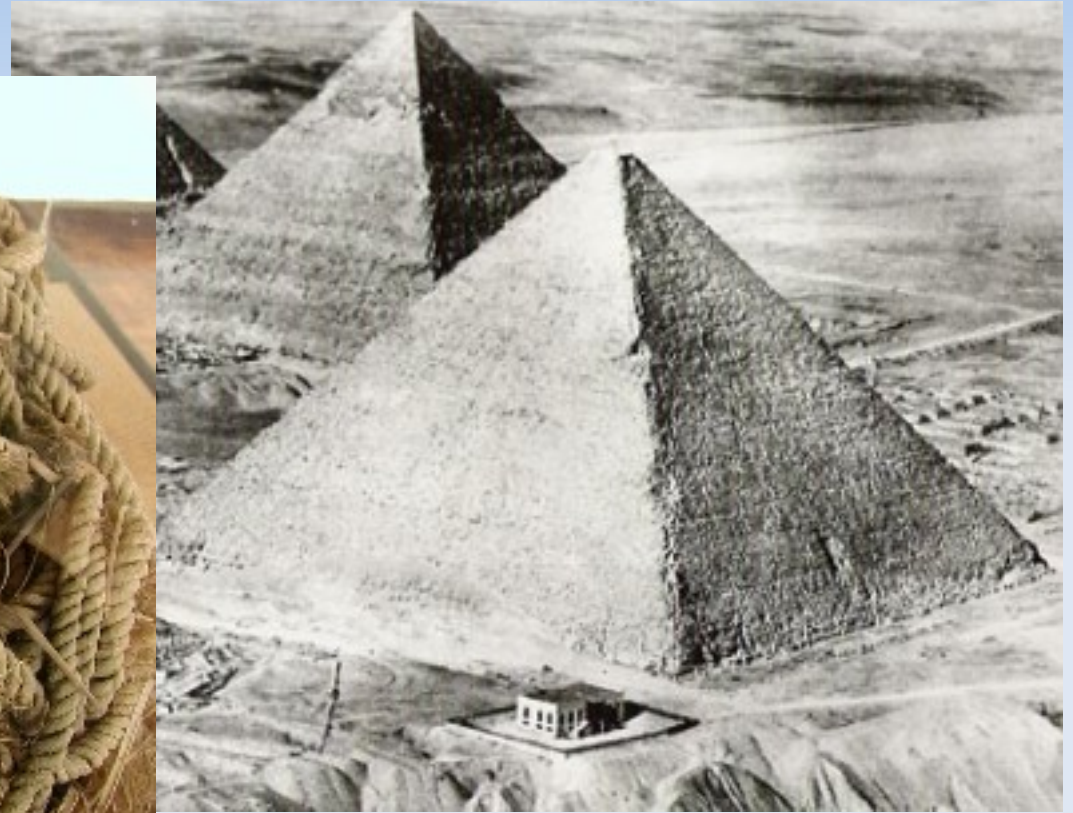
4500 year old rope

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Thank You

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