

Safety Hits for Kids (SH4K)

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Hands in Science



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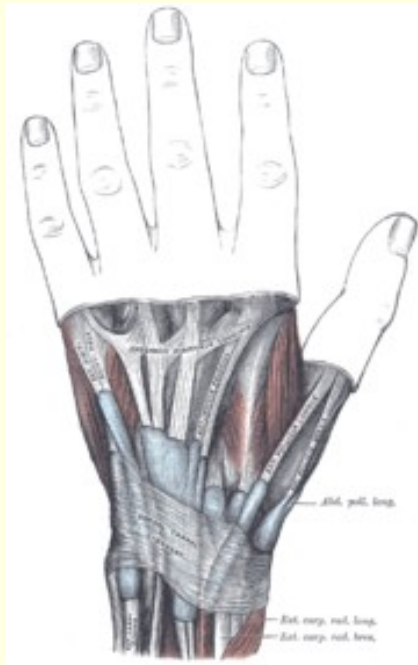
**SCIENCE HITS 4 KIDS
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Hand



Hand (in lat. manus) a piece of human body, used for interaction with environment and manipulation with objects.



A. Indication of substances qualities



- 1. Softness and coarseness**
- 2. Hardness**
- 3. Solidness and elasticity**
- 4. Heat-carrying capacity**
- 5. Material identification**



B. Quantities value guessing

6. Length guessing
7. Temperature guessing
8. Weight guessing 1
9. Weight guessing 2
10. Density guessing

C. Quantities measurement



11. Units of length and its measurement

12. Area measurement

13. Volume measurement

yard

yard (yd) is originally the British length unity:

- yd = 91,44 cm
- yd = 3 ft
- yd = 36 in
- yd = 1/1760 mile



(1068-1135)

Yard was defined as the distance between nose and thumb of English king **Henry I.** (1101).

D. Phenomena demonstration



14. Friction
15. Pressure and pressure force
16. Gravity
17. Water jet
18. Sound source
19. Sound reflection
20. Sound absorption
21. Heat generated by friction
22. Thermal radiation
23. Vaporization
24. Electrification by friction
25. Conductivity of hand skin
26. Slit diffraction



E. Interdisciplinary science phenomena

27. Heartbeat

28. Reaction speed

29. Laterality 1

30. Laterality 2

31. Laterality 3

32. Decimal system

33. Fingerprints

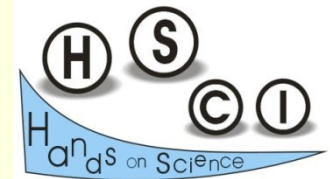


F. Magic, tricks, illusions and paradoxes

- 34. Extinguishing of candlelight by fingers**
- 35. Two temperature water**
- 36. Broken finger**



Hands-on Science



- **1st International Conference on Hands-on Science**
HSCI'2004, Univ. of Ljubljana, Slovenia, 5-8 July 2004
- **2nd International Conference on Hands-on Science**
HSCI'2005, Univ. of Crete, Rethymno, Greece, 13-16 July 2005
- **3rd International Conference on Hands-on Science**
HSCI'2006, Univ. of Braga, Portugal, 4 - 9 Sept 2006
- **4th International Conference on Hands-on Science**
HSCI'2007, Univ. of Azoras, Ponta Delgada, Portugal, 23 - 27
July 2007
- **5th International Conference on Hands-on Science**
HSCI'2008, Univ. of Recife, Olinda-Recife, Brazil, 13 – 17
October 2008

Thank you for your attention!



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