

HONEYBEE



Prepared by: Dr. Mohammed Saleh

Part 1: READ

16:68 النحل	وَأَوْحَىٰ رَبُّكَ إِلَى النَّحْلِ أَنْ اتَّخِذِي مِنَ الْجِبَالِ بُيُوتًا وَمِنَ الشَّجَرِ وَمِمَّا يَعْرِشُونَ (Y. Ali) And thy Lord taught (inspired) the Bee to build its cells in hills, on trees, and in (men's) habitations;
16:69 النحل	ثُمَّ كُلِي مِن كُلِّ الثَّمَرَاتِ فَاسْلُكِي سُبُلَ رَبِّكِ ذُلُلًا يَخْرُجُ مِنْ بُطُونِهَا شَرَابٌ مُّخْتَلِفٌ أَلْوَانُهُ فِيهِ شِفَاءٌ لِلنَّاسِ إِنَّ فِي ذَلِكَ لَآيَةً لِّقَوْمٍ يَتَفَكَّرُونَ (Y. Ali) Then to eat of all the produce (of the earth), and find with skill the spacious paths of its Lord: there issues from within their bodies a drink of varying colors, wherein is healing for men: verily in this is a Sign for those who give thought.

Part 2: LEARN



Possible topics to cover:

1 What the honey bee looks like?

2 The worker bees

3 The male or drone bees

4 The honeycombs, **hexagons**: give your students the challenge of drawing perfect hexagons without using any drawing equipment; honeybees don't use equipment either

5 Bee wax

6 Eggs, larva pupae and adults

7 The Queen cell

8 The wedding flight of the Queen

9 The swarm

10 What bees do in hive?

11 Nectar and pollen

12 How bees use nectar and pollen

13 Nectar ripening

14 Propolis: bee glue

15 How bees navigate

16 The Language of the bees

17 The round dance and the waggle dance (opportunity for movement)

18 How the bees find a new home

19 Bee keeping

20 A **Field trip** to a honeybee farm or inviting a beekeeper to talk to students



References:

Harun Yahya. EVERTHOUGHT ABOUT THE TRUTH, Goodword Books, New Delhi, 2005 (www.goodworkbooks.com)

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Part 3: THINK & CONNECT

Points for discussion:

- 1) What does the **Quran** say about honeybees?
- 2) What does **science** say about them?
- 3) What **miracles** do the honeybees deliver? (regulation of heat and humidity by the "ventilation group"; maintaining a health system by preventing foreign objects from entering the hive by using propolis to resisting or encircling any bacterial invasion; honeycomb construction is an architectural miracle (the hexagonal cell contains maximum amount of honey and needs minimum amount of wax for construction); determination of exact direction.
- 4) Ask your students **the impossible question**: can any body **reverse** the process?
- 5) Who created the honeybee? Do we worship Him enough?