



Putting the sting into STEM

Science and Technology
Departments



Does my 'bumble' look big in this?



Sweet Tongue?



Feeling the Pressure



STEM ORIENTED TEACHING AND LEARNING



Put your Honey where your Mouth is!

The Taste Test



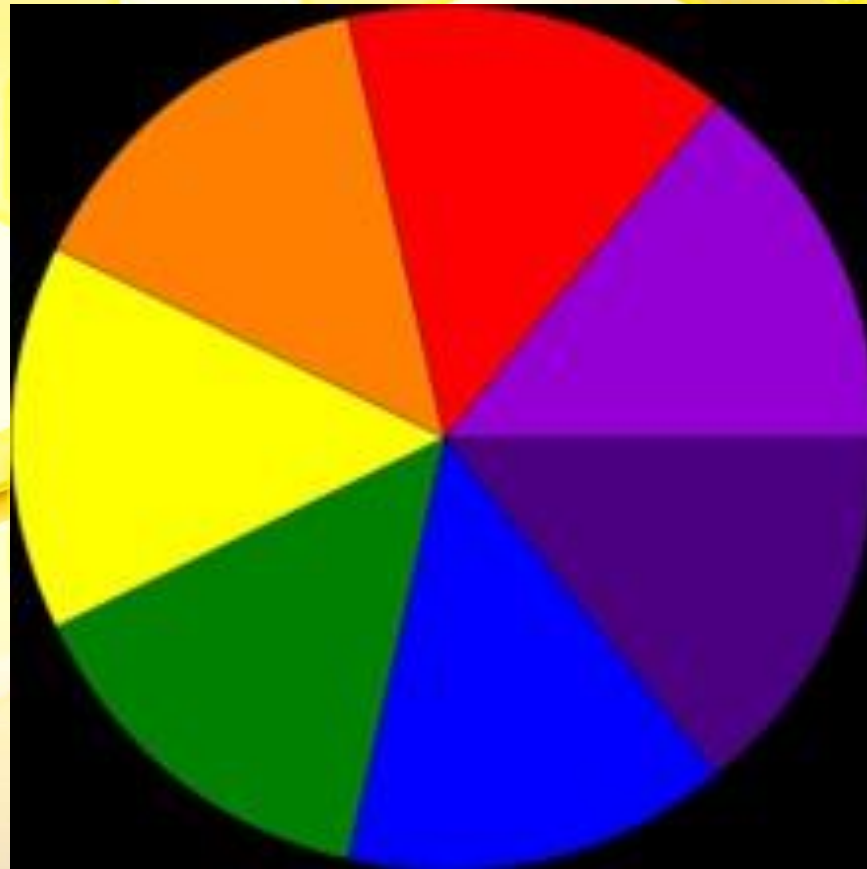
Sweet Tongue



The Colour Purple- Flavins



The Colour Purple – Seeing the light



Microbiology in STEM Learning





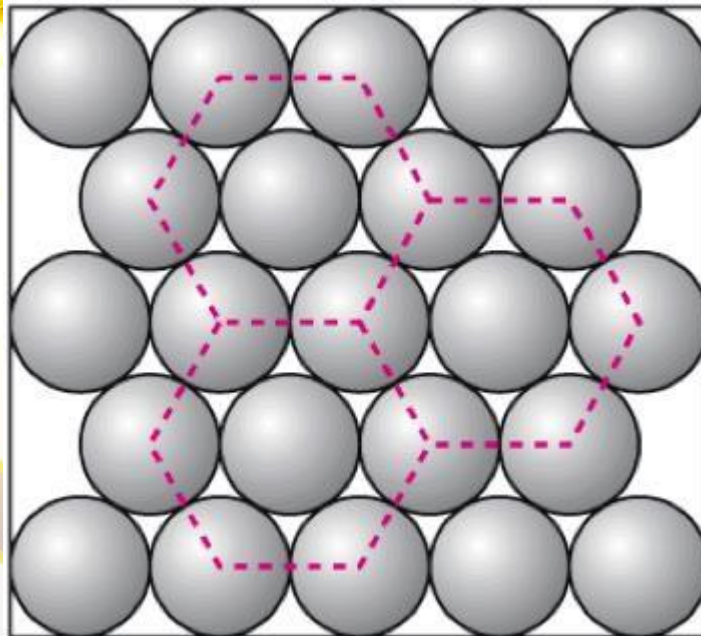
Feeling the Heat





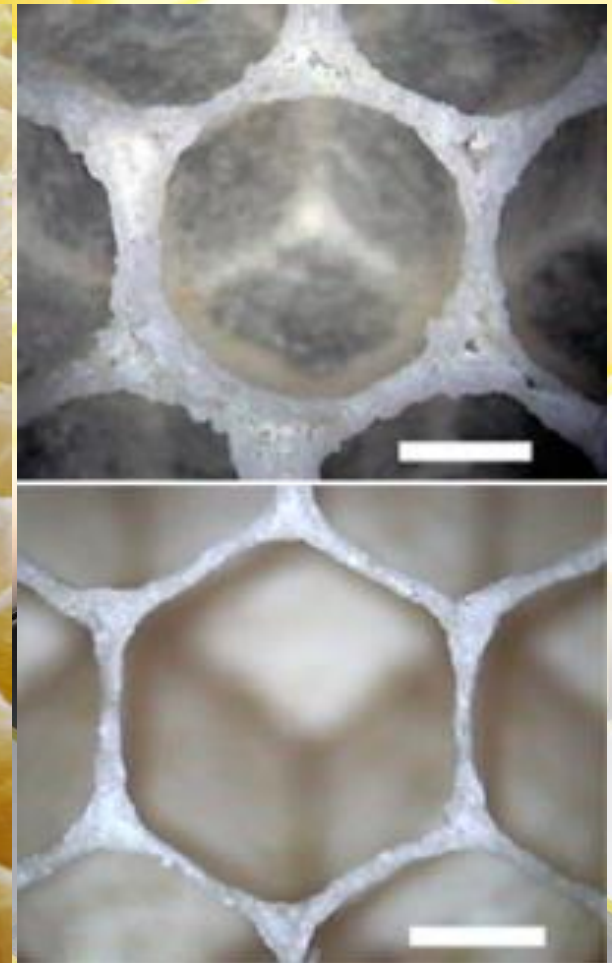
Really - Can a bee know about
shape and Space?

Are they Hexagon makers or
Hexagonal Close Packers?



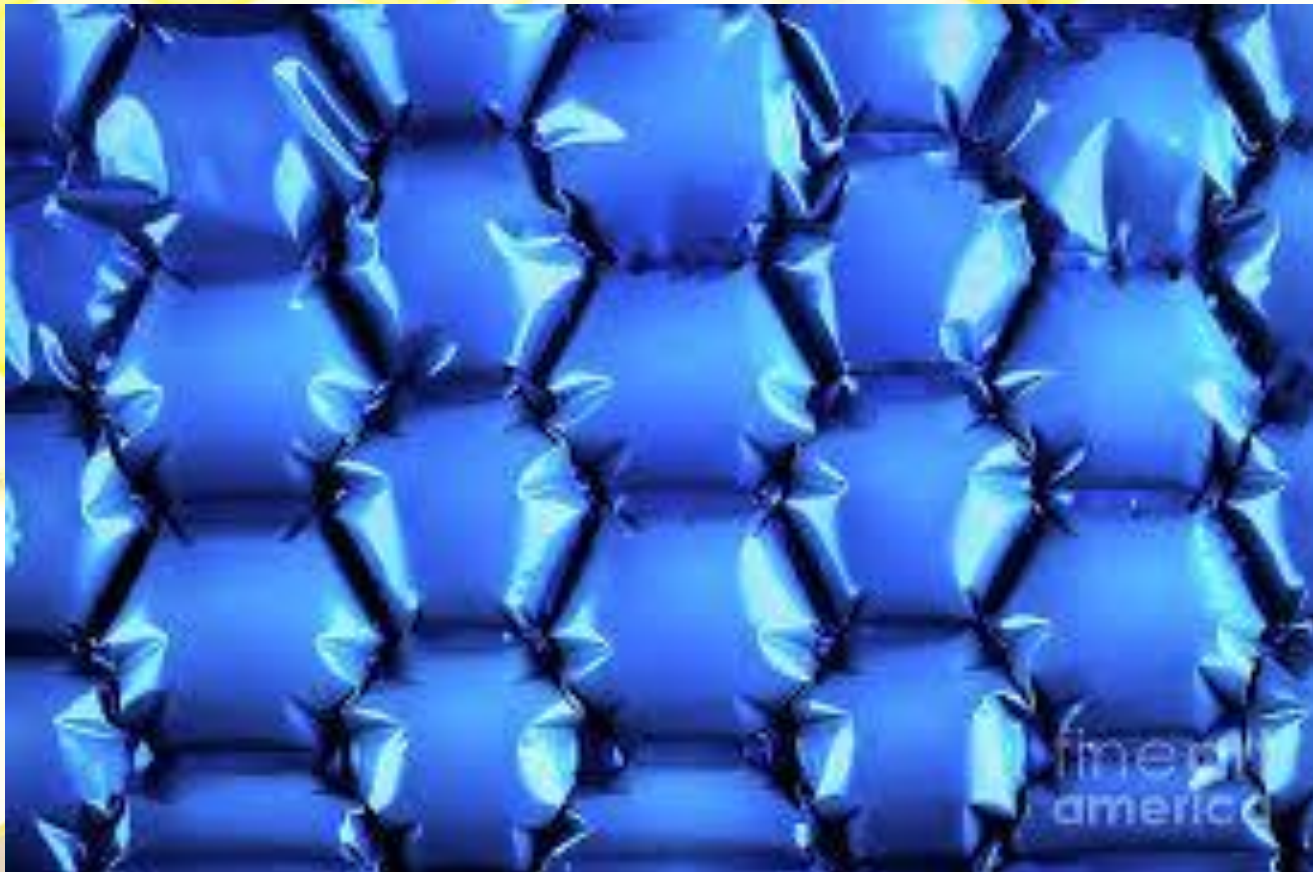


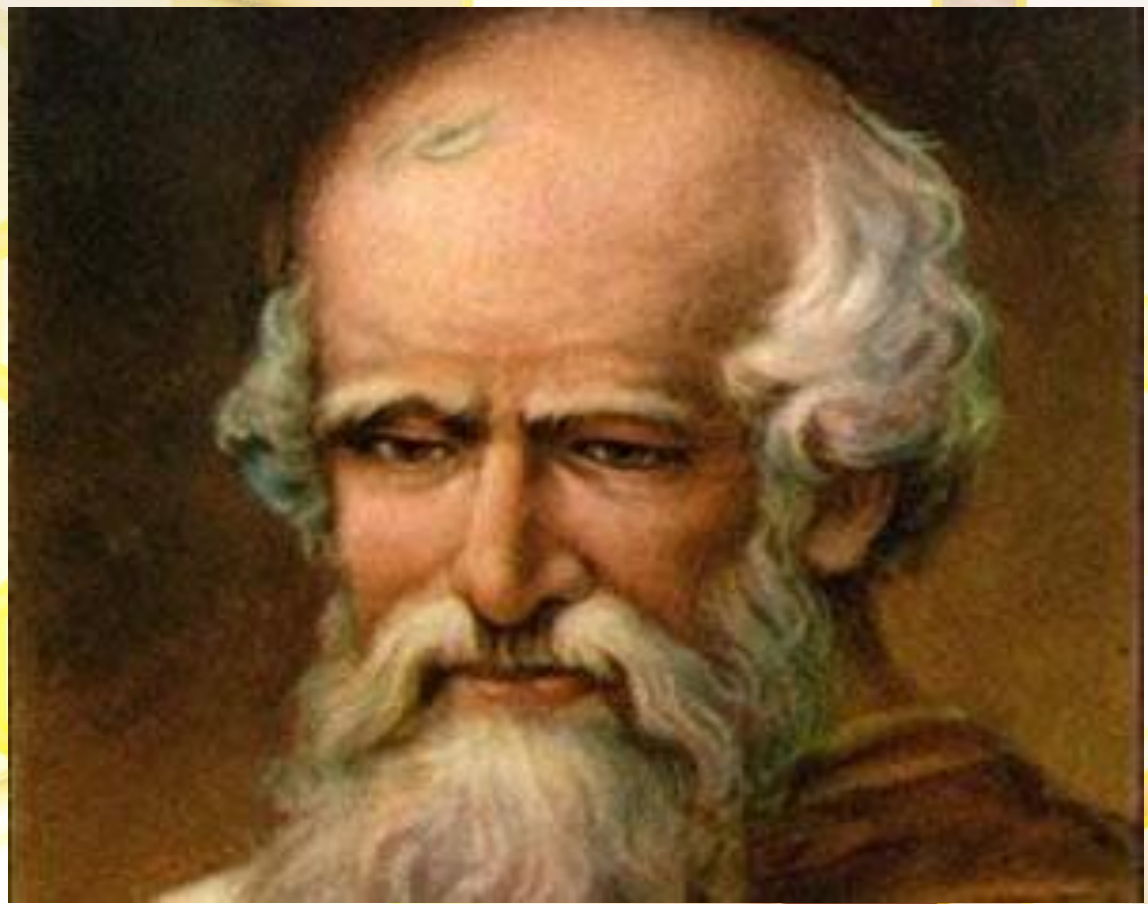
Observation and Experience



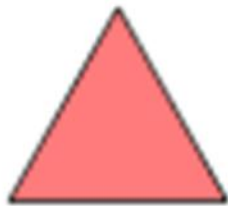


Observation, Experience and Art





Bees, Pi and Honey
Archimedes of
Syracuse.



Triangle



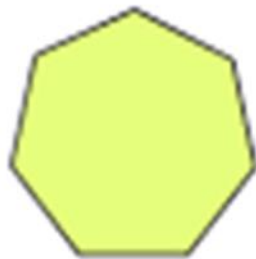
Quadrilateral



Pentagon



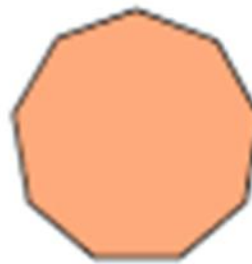
Hexagon



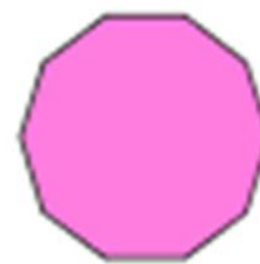
Heptagon



Octagon



Nonagon




Decagon

Destination: The Circle

Number of sides n	Exterior angle (nearest degree) $e = 360/n$	Interior angle $i = (180 - e)$	Tessellates?
3	120°	60.0°	✓
4	90.0°	90.0°	✓
5	72.0°	108°	×
6	60.0°	120°	✓
7	51.0°	129°	×
8	45.0°	135°	×
9	40.0°	140°	×
10	36.0°	144°	×
11	33.0°	147°	×
12	30.0°	150°	×
13	28.0°	152°	×
14	26.0°	154°	×



Pi and Honey

$$\text{Area} = \text{r} \times \text{r}$$
A photograph of a round, golden-brown pie with a lattice crust, sitting on a wooden surface. The pie is centered between the equals sign and the 'r x r' in the equation.

In and around....3?



Shall we dance? Robotics Programming

