

BEE PRESENTATIONS

ELEMENTRY SCHOOL

**1- MAKE SURE TEACHER PROVIDES AN AREA THAT HAS ACCESS TO A DRY ERASE BOARD.
(KIDS ARE VISUAL AND IT MAKES IT EASIER FOR THEM TO RESPOND. DO NOT WORRY ABOUT YOUR ARTISTIC ABILITY.**

**2- EQUIPMENT NEEDED:
HIVE BODY, HIVE TOOL, SMOKER, BEE VEIL OR SUIT,
GALLON MILK JUG, 1 LB M&M'S, DRINKING STRAW
COLORING SHEET TO HAVE COPIES MADE AT THE SCHOOL
SOME DRAWN COMB**

**3-SET SOME GROUND RULES FOR THE CLASS AT THE BEGINNING OF PRESENTATION:
.YOU ONLY ANSWERS QUESTIONS FOR THOSE THAT RAISE THEIR HAND.**

**4- DO NOT BE AFRAID TO GIVE THE CHILDREN THE CORRECT WORD AND THEN SIMPLIFY IT
I.E. THORAX—CHEST PHERMONE---BEE SMELLS**

**5-DEMONSTRATIONS:
... DRAW A HEXAGON ON THE BOARD AND ASK THE CLASS WHAT IT IS CALLED (THIS WILL HELP ESTABLISH RAISING THEIR HAND FOR QUESTIONS**

... DRAWING A BEE ON THE BOARD AND DISCUSSING THE DIFFERENT PARTS OF THE BEE.ASK QUESTIONS AS YOU ARE DRAWING AND WHAT THE DIFFERENT PARTS DO OR FUNCTION AS.

I.E. HOW MANY EYES DOES A BEE HAVE (5)2 COMPOUND AND 3 SIMPLE (OCEOLI)

**I.E. THE BEE'S TONGUE WORKS LIKE A STRAW
DEMONSTRATIONS**

**... ASK IF THERE IS SOMONE WHO WEIGHS ABOUT 80 POUNDS
HAVE THE 1 GALLON JUG FULL OF WATER**

**STEP 1 ASK THE VOLUNTEER TO FLAP HIS ARMS AND THE
CLASS WILL COUNT HOW MANY TIMES PER SECOND HE CAN
ACCOMPLISH THE TASK NORMAL RESULT IS 3**

**STEP 2 TELL CLASS A BEE FLAPS ITS WINGS 150-180 TIMES
PER SECOND**

**STEP 3 TELL CLASS THAT THE HONEY BEE CARRIES HALF
ITS WEIGHT BACK TO THE HIVE IN NECTAR OR 1/6 IT'S
WEIGHT IN POLLEN**

**STEP 4 USING THE 1 GALLON JUG FULL OF WATER
EXPLAIN TO THE CLASS THAT IT WEIGHS 8 POUNDS AND
THAT YOUR 80 POUND STUDENT WOULD HAVE TO CARRY 5
OF THE JUGS 2MILES WHILE FLAPPING THE WINGS AND
TRAVELING UP TO 2 MILES**

**STEP 5 HOW MUCH DOES A BEE WEIGH?
GIVE ABOUT 5 STUDENTS AN M&M AND HAVE THEM HOLD IT
UP IN ONE HAND AND EXPLAIN TO THEM THAT IS THE
APPROXIMATE WEIGHT OF 8-10 BEES.
THEN TELL THOSE STUDENTS THEY CAN EAT THE M&M.
TELL THE REST OF THE STUDENTS THAT YOU WILL GIVE
THE REST OF BAG TO THE TEACHERS TO DISTRIBUTE IF
THEY KEEP ON BEING GOOD**

**...TELL CLASS THAT BEES DANCE AND DRAW ON THE BOARD
HOW THEY USE THE SUN TO TELL DIRECTION**

**... PASS OUT COLORING SHEET TO TEACHERS AND SHOW IT
TO STUDENTS THAT IT IS THEIR TURN TO DO A GOOD JOB
DRAWING AND TO SEND YOU A PICTURE OF THEIR GOOD
WORK**

ADULT PRESENTATION

DIVIDE PRESENTATION INTO 3 PARTS

1—BASIC BEE BIOLOGY AND FUNCTIONS

2---POLLINATION

3--- HOW THEY CAN HELP

.....PESTICIDE USE

.....CREATING A BEE PASTURE

PESTICIDES IMIDACHLOROPID CHLONTHIADIN

**ARE CHEMICALS ADEQUATELY REGULATED?ADJUVANTS
LABELED “INERT”FOUND TO BE TOXIC TO INSECTS, ARE NOT
REQUIRED TO BE REGISTERED BY THE EPA. WE HAVE TO
FERRET OUT THE INFORMATION BECAUSE THEY ARE
PROPRIETARY INFO. ALTHOUGH BEES WIDELY GATHER
CORN POLLEN, CORN IS CONSIDERED TO BE A WIND
POLLINATED CROP; THERE IS NO CONSIDERATIONFOR
POLLINATOR EXPOSURE WHEN CHEMICAL TREATMENTS
ARE REGISTERED FOR SUCH PLANTS**

**..... READ “A SPRING WITHOUT BEES” BY
MICHAEL SCHACKER**