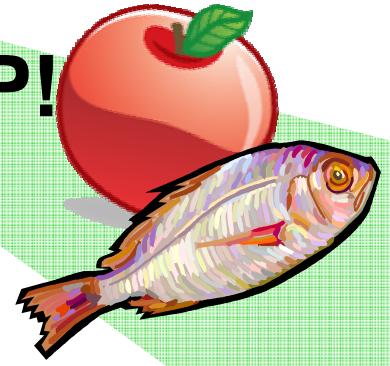


LS – Activity #22

Leap, Frog, LEAP!



QUESTION: How far could you jump if you were a South African, sharp-nosed frog?

MATERIALS:
meterstick or tape measure

PROCEDURE:

1. The South African sharp-nosed frog has been known to jump a total distance of more than 10 m in three jumps (about 100 times its length). How far could you jump if you were a sharp-nosed frog? See how far you can jump in one standing broad jump. Record the length of your jump in the Data table.
2. Repeat step 2 more times. Record the length of each jump.
3. Determine the average distance you jumped. **(Hint: Add the lengths of your three jumps and divide the total by 3. Round your answer to the nearest whole number.)**
4. Determine how far you could jump if you were the sharp-nosed frog. Record your height in the Data table. Multiply your height by 100. Record this length in the Data table.

DATA:

| //////////////////// | TRIAL 1 | TRIAL 2 | TRIAL 3 | AVERAGE |
|----------------------|---------|---------|---------|---------|
| JUMP DISTANCE | | | | |

| YOUR HEIGHT | X 100 | YOUR FROG JUMP |
|-------------|-------|----------------|
| | | |

QUESTIONS:

1. What special designs must the sharp-nosed frog have in order to be able to jump such a great distance?
2. What advantage does the frog get from this ability to jump?
3. What methods do amphibians use to protect themselves against predators?