

AnimalWatch Vi Suite:  
Unit Topics

**Module 1**

Polar Bear

- Add and subtract integers  
*Sample computation:  $1213 + 897 = 2110$*
- Add and subtract positive and negative integers  
*Sample computation:  $623 + (-64) = 559$*

Black Rhino

- Multiply and divide (basic)  
*Sample computations:  $3 \times 6 = 18$ ;  $60 \div 3 = 20$*
- Multiply and divide (challenge)  
*Sample computations:  $18 \times 32 = 576$ ;  $232 \div 4 = 58$*

California Condor

- Averages (mean, median, mode)  
*Sample computation: average of data set  $[2, 3, 2, 4, 3] = 2.8$*
- Averages and range  
*Sample computation: range of data set  $[2, 3, 2, 4, 3]$  is 2 to 4*

Sea Turtle

- Form a fraction  
*Sample computation: One part of four equal parts is  $1/4$*
- Solve problems using a fraction  
*Sample computation: Divide 12 into four parts; each part includes 3*

**Module 2**

Poison Frog

- Add and subtract fractions with like denominators  
*Sample computation:  $7/8 - 3/8 = 1/2$*
- Add and subtract like fractions and mixed numbers  
*Sample computation:  $2 \frac{2}{5} - 1/5 = 1 \frac{4}{5}$*

Burmese Python

- Convert units of measurement (basic)  
*Sample computation:  $27 \text{ feet} = 9 \text{ yards}$*
- Convert units of measurement (challenge)  
*Sample computation:  $403 \text{ pounds} = 6448 \text{ ounces}$*

Cheetah

- Convert fractions and percentages  
*Sample computation:  $5\% \text{ of } 300 = 15$*
- Solve problems about distance, speed and time  
*Sample computation:  $750 \div 50 = 15$*

## Hippo

- One-variable equations (basic)  
*Sample computation: If  $4x = 80$ ,  $x = 20$*
- One-variable equations (challenge)  
*Sample computation: If  $10 + 5 + x = 80$ ;  $x = 65$*

## Module 3

### Snow Leopard

- Add and subtract fractions with unlike denominators  
*Sample computation:  $2/35 + 2/70 = 3/35$*
- Add and subtract unlike fractions and mixed numbers  
*Sample computation:  $3 \frac{1}{8} - 2 \frac{1}{3} = 19/24$*

### White Shark

- Multiply and divide fractions (basic)  
*Sample computation:  $11 \times 2/5 = 4 \frac{2}{5}$*
- Multiply and divide fractions (challenge)  
*Sample computation:  $6 \frac{1}{3} \div 1/3 = 19$*

### Honeybee

- Probability (basic)  
*Sample computation: Probability of 1 in 4 = 0.25*
- Probability (challenge)  
*Sample computation: Probability of 2 out of 200 = 0.01*

### Gray Wolf

- Geometry: Shapes and angles (basic)  
*Sample computation: Value of a right angle is  $90^\circ$*
- Geometry (challenge)  
*Sample computation:  $\frac{1}{2}(\text{base} = 13 \times \text{height} = 4) = 26$  (area of right triangle)*