$$
\begin{aligned}
& \mathrm{R}^{\text {R MYSTEP/ TRDMRK } / \int} \\
& \text { SILVERQUICKEN } \\
& { }^{17} \text { C/SS \& SClE }
\end{aligned}
$$

PUZZLE SAMPLER $k$ : LOGCC

## PUZZZLES THAT AVAKEN <br> CURIOSITY \& WONDER

Silverquicken Education offers a variety of enrichment opportunities for kids and teachers, including a monthly puzzle subscription box, and in person Solver's Clubs around the country. We are a group of teachers, parents, and education industry veterans with a common purposeigniting wonder and joy in education. You are well on your own way to awakening the curiosity and wonder in your students. We hope you enjoy this free puzzle sampler. To learn more about our programming, puzzles, and events, visit us at:

## WWW.SILVERQUICKEN.COM

## TIPS FOR LAUNCHING PUZZLES

HOLD THE HINTS- At first it will be tempting to give your students hints, however the power of these puzzles lie in the productive struggle they encourage. Provide several minutes of think time before scaffolding. Encourage peer sharing.

SCAFFOLD WITH QUESTIONS- Ask students questions like: What do you see? What does that make you wonder? How could you test that out?

FOCUS ON FUN- Intrisically motivate your students to keep going by making puzzling fun. Puzzle together, puzzle often, and lean in to the wonder and excitement these puzzles unleash. Don't forget to celebrate success!

## SNAKES AND NUMBERS

The students of Silverquicken are eager to open their lockers and begin tending to their Amorpheggs (which will one day hatch into extraordinary Mounts). There is a problem however, as it seems that the combination locks have been changed over the weekend. Is this a test sent by the school's Mentors? Only one way to find out!

$$
\begin{aligned}
& 0= \\
& S I D V E R \\
& + \\
& 1= \\
& 2=R \\
& 3 \text { = } \\
& \text { COPPER } \\
& 4= \\
& 5= \\
& \text { LOCKERS } \\
& \begin{array}{l}
6= \\
7=
\end{array} \\
& 8=P \\
& 9=C
\end{aligned}
$$

## THE FOUR PETS

While in school, the students of Silverquicken are accompanied by their fantastical Mounts. However, when at home several of the students have less than extraordinary (but still lovable) creature companions. Use the clues below to match each student with their pet.

1. Nessa's pet sometimes chases the lizard and the cat.
2. Someone owns an eagle.
3. Jojo's pet and the dog often play together.
4. Gwen's pet has four legs.
5. The cold-blooded pet is owned by either Nessa or Oliver.
6. The dog-owner's name ends with a vowel.

|  | lizard | cat | eagle | dog |
| :---: | :--- | :--- | :--- | :--- |
| Jojo |  |  |  |  |
| Nessa |  |  |  |  |
| Oliver |  |  |  |  |
| Gwen |  |  |  |  |



Jojo Mensab


Nessa Young


Oliver Brian Cben


## PUZZLE SOLUTIONS

CRYPTARITHMS are mathematical puzzles in which the digits are replaced by symbols such as letters of the alphabet. Encourage studets to use the clue numbers provided. They may get stuck until they realize that they will need to regroup to add. Scaffold this clue by asking, "Are there any other number combinations that could yield a two in the second column to the

|  | lizard | cat | eagle | dog |
| :---: | :---: | :---: | :---: | :---: |
| Jojo | $\mathbf{X}$ | $\mathbf{X}$ | $\mathbf{O}$ | $\mathbf{X}$ |
| Nessa | $\mathbf{X}$ | $\mathbf{X}$ | $\mathbf{X}$ | $\mathbf{O}$ |
| Oliver | $\mathbf{O}$ | $\mathbf{X}$ | $\mathbf{X}$ | $\mathbf{X}$ |
| Gwen | $\mathbf{X}$ | $\mathbf{O}$ | $\mathbf{X}$ | $\mathbf{X}$ |

LOGIC ELIMINATION GRIDS are useful tools for organizing information. Encourage students to use the provided grid using the clues. Scaffold by asking students what true or untrue information the clues reveal about each Silverquicken student. The clues can be used in any order.

## SILVERQUICKEN

