Mathematical Practice 1

Make sense of problems and persevere in solving them.

When given a problem, I can make a plan to solve it and check my answer.

BEFORE...
Think about the problem.
Think!
Make a plan to solve the problem.

DURING...
Don't give up!
Does this make sense?

AFTER...
CHECK my work.
Is there another way to solve the problem?
Reason abstractly and quantitatively.

I can use numbers and words to help me make sense of problems.

Numbers to Words

2 + 3 = 5

Words to Numbers

I have 2 yellow flowers and 3 red flowers. How many flowers altogether?

2 + 3 = 5
Construct viable arguments and critique the reasoning of others.  

Mathematical Practice 3

I can explain my thinking and consider the mathematical thinking of others.

I can **explain my strategy** using...

- objects
- drawings
- actions

I can **compare my strategy** with others by...

- listening
- asking questions
- making connections between my own thinking and others

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Jordan School District 2012, Grades K-1
Model with mathematics.

Mathematical Practice 4

I can recognize math in everyday life and use math I know to solve problems.

I can use...

(Pictures) 4 birds are in a tree. 2 birds flew away. How many are left?

(Symbols) 4 - 2 = 2

I have 4. I take 2 away. Now I have 2.

Objects

(Words)

...to solve everyday problems.
Use appropriate tools strategically.

Mathematical Practice 5

I can use math tools to help me explore and understand math in my world.

I have a math toolbox.
Attend to precision.

Mathematical practice 6

I can be careful when I use math and clear when I share my ideas.

Careful and clear mathematicians use...

PLUS:
- join

EQUAL:
- the same as

2 cats + 3 dogs = 5 pets

• math vocabulary
• symbols
• labels
• addition and subtraction strategies

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Look for and make use of structure.

Mathematical Practice 7

I can see and understand how numbers and shapes are put together as parts and wholes.

**Numbers**

\[
\begin{array}{c}
\begin{align*}
\text{\includegraphics[width=2cm]{image1}} & = 11 \\
10 + 1 & = 11
\end{align*}
\end{array}
\]

**Shapes**

\[
\begin{array}{c}
\begin{align*}
\text{\includegraphics[width=2cm]{image2}} & = \text{\includegraphics[width=2cm]{image3}} \quad \text{\includegraphics[width=2cm]{image4}} \quad \text{\includegraphics[width=2cm]{image5}} \\
2 + 1 & = 1 + 2
\end{align*}
\end{array}
\]
Look for and express regularity in repeated reasoning. \hspace{1cm} \textbf{Mathematical Practice 8}

\textit{I can notice when calculations are repeated.}

\begin{align*}
11 &= 10 + 1 \\
12 &= 10 + 2 \\
13 &= 10 + 3 \\
14 &= 10 + 4 \\
15 &= 10 + 5
\end{align*}

\text{I see number patterns!}