



# **OWL Thinkers**

## **Math Foundations & Problem Solving**

### **Ages 4-5 · Printable Educator Workbook**

20 pages · Color cover + print-friendly activity pages

**Slow pacing · Big feelings · Joyful learning**

Created for OWL Sing Together educator printables

# Educator Guide

A dedicated pre-K math workbook supports the high-demand 4-5 classroom band. This title uses number tracing, one-to-one correspondence, comparison, shape classification, patterns, measurement language, and picture-based addition.

## Learning goals

- Count and trace numerals 1 to 20.
- Use one-to-one correspondence up to 10.
- Compare quantities and measurements.
- Explore picture-based addition as putting together.

## Use it this way

- Read directions aloud. Invite children to point, say, color, circle, trace, or draw at their own pace.
- Keep pages short and playful. For ages under 5, completing one page with joy matters more than finishing a packet.
- Offer crayons, chunky pencils, stickers, counters, and movement breaks. These pages are educator-led, not test pages.

## Research base

1. CDC developmental milestones:  
<https://www.cdc.gov/act-early/milestones/index.html>
2. Head Start ELOF:  
<https://headstart.gov/school-readiness/article/head-start-early-learning-outcomes-framework>
3. NAEYC DAP principles:  
<https://www.naeyc.org/resources/position-statements/dap/principles>
4. Reading Rockets phonological awareness:  
<https://www.readingrockets.org/reading-101/reading-and-writing-basics/phonological-and-phonemic-awareness>
5. Common Core Kindergarten Math:  
<https://www.thecorestandards.org/Math/Content/K/>



# Trace numbers 1-5.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1

.....  
trace, then try

2

.....  
trace, then try

3

.....  
trace, then try

4

.....  
trace, then try

5

.....  
trace, then try



# Trace numbers 6-10.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**6**

.....  
trace, then try

**7**

.....  
trace, then try

**8**

.....  
trace, then try

**9**

.....  
trace, then try

**10**

.....  
trace, then try



# Trace numbers 11-15.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**11** .....  
 trace, then try

**12** .....  
 trace, then try

**13** .....  
 trace, then try

**14** .....  
 trace, then try

**15** .....  
 trace, then try



# Trace numbers 16-20.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**16**

.....  
trace, then try

**17**

.....  
trace, then try

**18**

.....  
trace, then try

**19**

.....  
trace, then try

**20**

.....  
trace, then try



# Count and write the number.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1




2




3




4




5





# Count larger sets.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

6 

7 

8 

9 

10 



## One-to-one: match each owl to a nest.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

owl

nest

owl

nest

owl

nest

owl

nest

owl

nest



# More, fewer, or equal?

Name: \_\_\_\_\_

Date: \_\_\_\_\_



more

fewer

equal



more

fewer

equal



more

fewer

equal



more

fewer

equal



# Shape detective: find and color shapes.

Name: \_\_\_\_\_

Date: \_\_\_\_\_



circle



square



triangle



rectangle



oval



diamond



## Match each shape to its name.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**circle**

**oval**

**square**

**triangle**

**triangle**

**circle**

**oval**

**square**



# Complete the ABC patterns.

Name: \_\_\_\_\_

Date: \_\_\_\_\_



# Complete the AAB patterns.

Name: \_\_\_\_\_

Date: \_\_\_\_\_



# Circle longer, shorter, taller, or smaller.

Name: \_\_\_\_\_

Date: \_\_\_\_\_



more

fewer

equal



more

fewer

equal



more

fewer

equal



more

fewer

equal



## Full, half-full, empty: match the jars.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**full** **empty**

**half-full** **full**

**empty** **half-full**



# Put together. Count them all.

Name: \_\_\_\_\_

Date: \_\_\_\_\_



$+ 1 =$



$+ 2 =$



$+ 1 =$



$+ 3 =$



## Picture addition within 5.

Name: \_\_\_\_\_

Date: \_\_\_\_\_



$+ 1 =$



$+ 2 =$



$+ 1 =$



$+ 3 =$



# My number book: draw objects to match.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1



2



3



4



5



# OWL Certificate



**This certifies that**

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completed OWL Thinkers: Math Foundations & Problem Solving

**Every child belongs here.**

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Educator

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Date

