

Module 1 © Counting

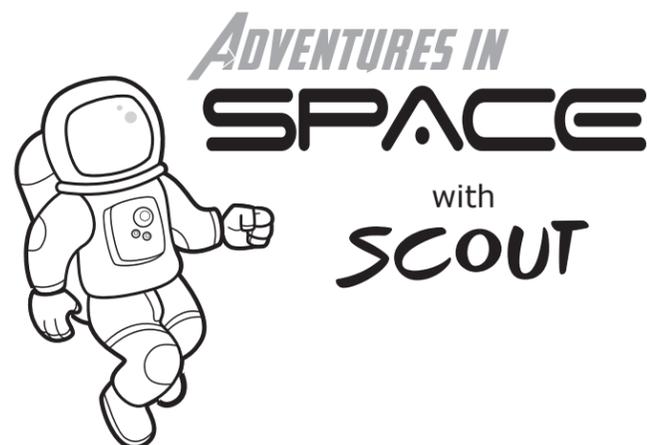
Module Overview

Adventures in Space focuses on counting. The activities include counting orally to 20, counting and one-to-one correspondence to 10, counting from any given number, relating numbers and quantities, counting to answer “how many,” comparing quantities, and using ordinal words through fifth.

The activities are sequenced by counting order. The module is directed at the concrete level with pictorial representations on the activity mats. Written numerals are not introduced.

The activity mats are clustered for easy repetitive organization and thorough practice.

This module can be used as a review or an introduction to counting with one-to-one correspondence. Basic familiarity with space-related vocabulary is required.



NOTE: Scout is referred to as both male and female throughout the copy.

Prerequisites 00

Objectives 00

Vocabulary 00

Materials 00

Activity Record 00

Instructional Strategies 00

- Number 1: Activity Mats 00-00
- Number 2: Activity Mats 00-00
-

Counting Assessment 00

Extensions..... 00

- Literacy
- Centers
- Home-School

Module Overview

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Preparation for Kindergarten Common Core State Standards

- K.CC.1, K.CC.2, K.CC.4, K.CC.5, K.CC.6

Prerequisites

- Count orally to 5
- Use a crayon or marker
- Understand basic space vocabulary

Objectives

1. To count orally to 20
2. To use one-to-one correspondence to count to 10
3. To count from a given number
4. To relate numbers and quantities
5. To count to answer “how many”
6. To compare quantities
7. To use ordinal numbers through fifth

Vocabulary

- compare
- equal
- fifth
- first
- fourth
- how many
- less
- more
- second
- third

Materials

- Space objects or counters
- Crayons or markers
- Classroom supplies (pencils, tables)
- YouTube videos
- Music
- Theme badges (Appendix E)

Scout, the astronaut, is exploring and gathering information in space. The journey takes him from Earth to the moon where he meets friendly aliens. They celebrate together playing a game before he boards the spaceship to continue in space. (Using one-to-one correspondence for counting through five is included.)

Scout then travels to the planets, counting them in order from the Sun. She leaves Pluto to return home. (Using one-to-one correspondence for counting six through ten is included.)

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Activity Mats 1-3

One-to-one correspondence for 1
Oral counting to 5

- Space objects for counting (if available)
- YouTube video of a spaceship launch
- Crayons or markers

Number 1

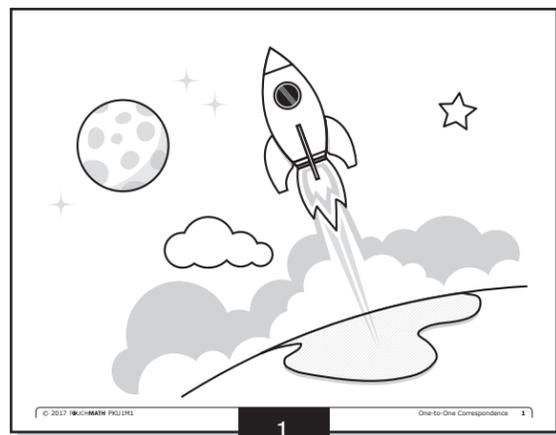
I have 1 pencil, 1 star, 1 crayon.
I have 1 head, 1 nose, 1 belly.

Show me 1 head, 1 nose, 1 belly.
Show me 1 jump, 1 nod of your head, 1 clap of your hands.
Show me 1 finger, 1 hand, 1 foot.

Use a number song for 1 or a simple rhyme:

I am 1 (boy or girl)
I have 1 head.
I have 1 nose.
I have 1 belly.
When I giggle, I wiggle!

Reinforce 1 during calendar time, job chart, attendance chart, and in line, by modeling and having the children repeat your action. Practice oral counting to 5 when the children are being seated for meals, circle time, etc.

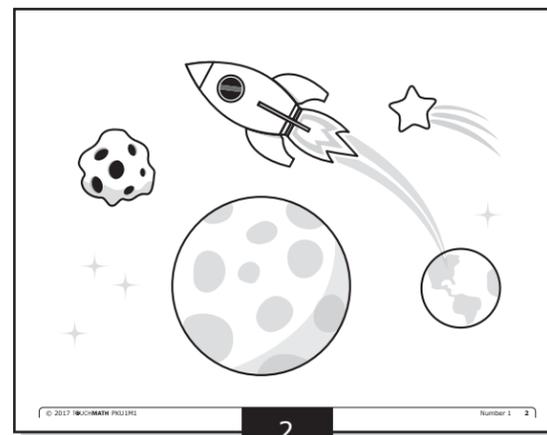


Introduce Scout and the journey in space.

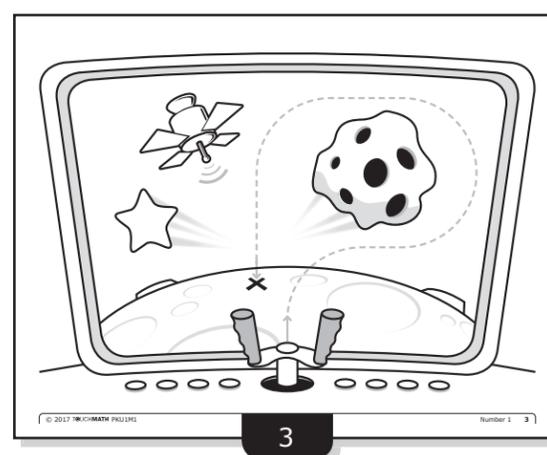
Scout is an astronaut. Scout can be a boy or a girl. When you are a little older you may be a boy scout or a girl scout. Scout gathers things on his adventures. She is making a trip into space.

- ▼ Show a short YouTube video of a spaceship launch.
- ▼ Distribute activity mat 1. Discuss objects in space.
- ▼ Distribute space counting objects. Use the objects to match or identify the objects in space:
 - 1 moon
 - 1 spaceship
 - 1 cloud
 - 1 star

Activity Mats 1-3



Scout's spaceship leaves the Earth and circles the moon. What does Scout see?. Help Scout steer around the objects in space to land safely on the moon.



Scout's spaceship leaves the Earth and circles the moon. What does Scout see?. Help Scout steer around the objects in space to land safely on the moon.

- ▼ Continue to identify the number of objects in the pictures:
 - 1 spaceship
 - 1 space rock
 - 1 shooting star
 - 1 planet (Earth)
 - 1 moon
 - *****
 - 1 space station

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Small Groups

Provide space counting objects (or other counters) at the tables.

EMERGING

C R A

(Use the counting objects and the samples below.)
Show me 1 spaceship. Say "1 spaceship."
Show me 1 star. Say "1 star."
Show me 1 moon. Say "1 moon."
(Repeat with objects on mats 2 and 3.)

DEVELOPING

C R A

Match objects to the pictures.
Place an object on the spaceship.
Say "1 spaceship."
Place 1 object on the star. Say "1 star."
(Continue with the objects on all three activity mats.)

MASTERING

C R A

Use the objects on mats 1 and 2.
Use the pictures only on mat 3.

Provide the space objects for free play at the sand table. Model and encourage storytelling, repeating the sample sentence "1 spaceship leaves the Earth."

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Activity Mats 4-5

One-to-one correspondence for 2
Oral counting to 5

- Space objects for counting
- Crayons or markers
- Astronaut badges (Appendix E)

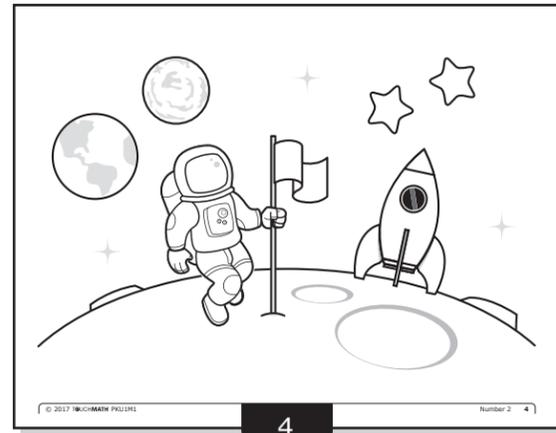
Number 2

(Count 1, 2 while modeling.)
I have 2 eyes, 2 ears, 2 feet.
I jump 2 times.
I bow 2 times.
I touch my nose 2 times.

Count 1, 2 as you show me
your 2 eyes, 2 ears, 2 feet.
Jump 2 times. Bow 2 times.
Touch your nose 2 times.
Show me 2 fingers.

Sing the "Hokey Pokey" song.
Ask the children to place 1 hand
in, then the other hand, then
both hands. Have them "shake
them all about."

Continue to reinforce 2 throughout
the day. Give each child an astronaut
badge. Have each "gather" 2 objects
while wearing the badge. Have them
bring the objects to the small group
tables for counting.



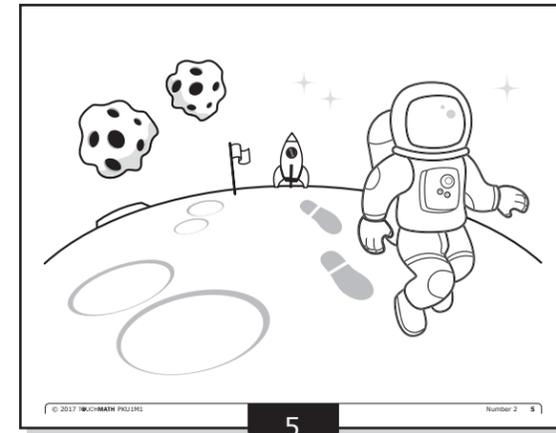
Scout lands on the moon and plants a flag to show that an American has been there. She explores the moon. What do you think Scout sees on the moon?

- ▼ Distribute mat 4 and space counting objects.
- ▼ Place and count 2 objects on the pictures.
 - 2 stars
 - 2 planets
 - 2 craters (holes) on the moon



Activity Mats 4-5

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Did you guess the things Scout explored on the moon?

- ▼ Reinforce the body parts that are in twos: eyes, ears, shoulders, arms, hands, hips, legs, knees, ankles, feet.
- ▼ Identify them on Scout.
- ▼ Identify the 2 objects:
 - 2 space rocks
 - 2 small craters
 - 2 large craters
 - 2 footprints



Small Groups

Use the objects the children gathered in the classroom. Count each of set of 2.

Demonstrate that 2 comes after 1 in counting order. Also show that 2 is more than 1.

EMERGING

C R A

Continue with the classroom objects for counting sets of 2. Introduce the space objects. Have them children count and place them in groups of 2.

DEVELOPING

C R A

Have the children match the sets of 2 counting objects to sets of 2 space objects. Reinforce that 2 can be 2 of anything. Then, match the space objects to pictures on the activity mats.

MASTERING

C R A

Complete the "developing" activity for mat 4. Touch, count, and say the sets of 2 in the pictures on mat 5.

Provide markers or crayons and a badge for each child to decorate. Encourage the children to include their favorite colors and some things they like about space.