



Bee-Bot Clock

A Bee-Bot Activity for the Classroom

by Karen Reynolds

Activity Overview

Draw a clock on the floor, on paper, or create a clock with tape. Place the hours from 1 to 12 on the clock. Make the 3, 6, 9, and 12 bold or larger for this beginning time activity. Talk with children about what time means. Discuss the difference between analog and digital. Practice reading analog and digital clocks. Practice converting between analog and digital time. Talk about relative time (earlier, later, etc.).

Activity Objectives

- Students will recognize quarter hours.
- Students will verbalize quarter hours.
- Students will understand the relationship between analog time and digital time.
- Students will be able to follow verbal instructions and display the correct time on the clock.
- Students will verbalize their understanding of relative time.

Concepts/Standards

- Use technology to enhance learning and promote creativity
- Recognize numbers and patterns
- Time (analog and digital)
- Identify relationships
- Understand concepts of “earlier”, “later”, “before”, “after”
- Recognize we live in a global community where time is relative

Extensions/Adaptations

- Create a clock with Roman Numerals (I to XII)
- Introduce concepts of earlier, later, tomorrow, yesterday, etc.
- Talk about units, proportions, and multiplication: turning one unit (15 minutes) on the clock takes Bee-Bot to the 3, turning two units (30 minutes) on the clock points Bee-Bot to the 6, etc.
- Introduce time zones and talk about the current time in other parts of the world. Make this an addition and subtraction lesson.
- Introduce the concept of the solar system and the earth’s rotation and the effect on time.
- Create a history lesson by talking about daylight savings time.

Literature

- Telling Time with Big Mama Cat, Dan Harper
- Telling Time: How to Tell Time on Digital and Analog Clocks! Jules Older
- Bats Around the Clock, Kathi Appelt and Melissa Sweet
- My First Book of Time, Claire Llewelly
- Big Hand, Little Hand, Judith Herbst

Web Resources

Analog and Digital Printable Worksheets

<http://www.blackdog.net/games/clock/worksheets/>

Online Clock Game

<http://www.primarygames.com/time/start.htm>

The History of Daylight Savings Time

<http://webexhibits.org/daylightsaving/>

The World Clock – Time Zones

<http://www.timeanddate.com/worldclock/>

Roman Numerals

<http://mathforum.org/dr.math/faq/faq.roman.html>