

Grade Intro to Science Unit

Grade level: Kindergarten **Unit:** Observations with Senses **Time Frame:** Sept.-Nov.

Unit Essential Questions:

- What is science?
- What is a scientist?
- How does one think like a scientist?
- Why is science important?

Big ideas:

- The five senses are sight, sound, touch, smell, and taste.
- The senses aid in observation that helps us to understand our surroundings.
- Not all senses are used for all observations.

Essential Concepts/Skills/

GLCE's:

S.IP.00.11 Make purposeful observation of the natural world using the appropriate senses.

S.IP.00.12 Generate questions based on observations using the senses.

S.IP.00.13 Plan and conduct simple investigations using the senses.

S.IP.00.14 Manipulate simple tools (hand lens, balances) that aid observations and data collection.

S.IP.00.16 Construct simple charts from data and observations.

S.IA.00.12 Share ideas about the senses through purposeful conversation.

S.IA.00.13 Communicate and present findings of observations.

S.IA.00.14 Develop strategies for information gathering (ask an expert, use a book, make observations, conduct simple investigations, and watch a video).

S.RS.00.11 Demonstrate science concepts about the senses through illustrations, performances, models, exhibits, and activities.

NGSS:

Asking Questions and Defining Problems

- Ask questions based on observations to find more information about the natural and/or designed world.
- Define a simple problem that can be solved through the development of a new or improved object or tool.

Vocabulary:

- senses
- observation
- sight
- sound
- taste
- touch
- smell
- feel

PRE-PLANNING CONSIDERATIONS

Misconceptions that need to be addressed:

- Children tend to classify objects according to their uses rather than their properties.
- Children pay attention to what they perceive through their senses rather than the logic, which may suggest a different interpretation – so if the sun appears to move around and follow then they think it, does move this way.

LEARNING CYCLE INSTRUCTIONAL MODEL FOR SCIENCE

ENGAGE (Choose 1 or 2)

Whole Group

<https://www.youtube.com/watch?v=n5cbtpm0qk>
<https://www.youtube.com/watch?v=GmgjQAroNLo>
<https://www.youtube.com/watch?v=o80y5rWizuA>
<https://www.youtube.com/watch?v=4195HMbldLo>
<https://www.youtube.com/watch?v=1tTKLE72fJl>

EXPLORE (Inquiry)

Part

<http://www.k12.wa.us/EarlyLearning/pubdocs/Unit1UsingOurSensestoObserve.pdf> (Unit)
<http://www.simplyscience.com/Kindergarten.html#senses> (activities)
<https://ilearn.marist.edu/access/content/user/10036376@marist.edu/Course%20Projects/Megan%20Tarantino%20ScienceUnit.pdf> (unit with worksheets)
http://www.educationworld.com/a_lesson/lesson/lesson183.shtml (activities)
<http://www.education.com/activity/the-5-senses/> (activities)
<http://www.mrsoshouse.com/pbl/observe/indexobserve.htm> (observations online activity)

Other lessons for download are available on:

<http://flintsciencesource.weebly.com/1st-mk-period-observingquestioning-senses.html>

EXPLAIN (Choose 2-3)

Part

<http://www.prometheanplanet.com/en-us/Resources/Item/179039/five-senses-taste-test#.U768ro1dUuV> (flipchart to download)
<http://www.prometheanplanet.com/en-us/Resources/Item/28191/five-senses#.U76-Wo1dUuU> (flipchart)

Additional flipcharts & reading passages available for download on:

<http://flintsciencesource.weebly.com/1st-mk-period-observingquestioning-senses.html>

ELABORATE (Engineering Challenge)

Whole class introduction & then Part

<http://www.ciese.org/curriculum/engineering/backscratcher.html> (design & make a backscratcher)

<http://www.cpalms.org/Public/PreviewResource/Preview/46252> (create an instrument)

-Create your own frosting flavor- available for download on:

<http://flintsciencesource.weebly.com/1st-mk-period-observingquestioning-senses.html>

EVALUATE

Whole

http://www.softschools.com/quizzes/science/five_senses/quiz1584.html (online quiz)

<http://www.jmeacham.com/docs/assessment/science.socialstudies/5.senses.oral.assessment.pdf> (downloadable)

Additional downloads available at:

<http://flintsciencesource.weebly.com/1st-mk-period-observingquestioning-senses.html>

Notes: At this point daily lessons have not been written for kindergarten. We would like to provide complete units in the future. We will notify you when those units are available.