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| **Math 4** |
| **Subject: Math****Unit: Adding Decimals to Tenths** |
| **Learning Target:** Students learn that decimals can be estimated and added using base ten blocks and place value. When adding decimals vertically, the decimal points are always aligned. |
| **Curriculum Outcomes:** **N11.01** Predict sums of decimals using estimation strategies.**N11.02** Solve problems that involve the addition of decimals to hundredths. |
| **Screencast Support:** [Estimating and Adding Hundredths](https://www.youtube.com/watch?v=mtWFovHAdV4)  Game: [Adding tenths and Hundredths](https://www.teachingchannel.org/videos/elementary-math-lesson-plan)  |
| **Resources/AT Tips:** - iPads Number Basics app HD:Users:lorna:Desktop:Screen Shot 2015-07-03 at 8.55.14 AM.png  - Math Makes Sense 4 text -Decimal place value mats**-** Flats and rods-100th grids-Pearson i**nteractive base ten blocks –** use to demonstrate **(nsvs site)****-Game** ‘Adding Tenths and Hundredths’ – screencast demo |
| **Lesson Procedure** | **21st Century Skills** |
| **I do:** **Activate Prior Knowledge*** Review the value of base ten blocks **when modeling decimals**.

(flat= 1whole , rod= 1 tenth). Demonstrate using concrete base ten blocks.* **Review how to estimate** numbers to the nearest whole.

1.6 – is it closer to 1 or 2?1.2 – is it closer to 1 or 2? |  find, validate remember, understand  communicate  |
| **You do:*** Together look at estimation strategies on page 206. Then, explore the **three strategies for adding decimal**: use base ten blocks, add left to right, and use a number line.
* Demonstrate how to add decimals using **Pearson interactive base ten blocks.** (Use base ten blocks and a decimal place value mat- demonstrate how to model adding decimals, like 3.6 + 1.1 and 1.3 + 3.5, etc.) (**nsvs site**) (see below)
* Present the **screencast**, Estimating and Adding Hundredths.
* **Discuss** screencast. **Review** regrouping using the SmartBoard **or** Pearson tools.
 |  collaborate, communicate analyze, synthesize  |
| **We do:*** **Collaboratively**, have students complete the **activity sheet** below, Estimating and Adding Decimals. They build and add decimals using the **app,** Number Pieces **or** they use the concrete **base ten blocks**.
* **Play the game** as seen on the screencast. Choose decimals for them to add **or** have them choose their own numbers to add.
 |   collaborate, communicate analyze, synthesize critical thinking evaluate, leverage |
| **We share:*** **Together** correct text and activity sheet; have some students use the SmartBoard to model the addition of decimals. Continue reviewing.
 |   collaborate, communicate critical thinking evaluate, leverage create, publish citizenship |
| **Differentiation** |
| **Adaptations:*** Provide a **decimal place value mat** as they add decimals.
* Have them continue to work with base ten blocks, representing decimals, independently and with partners. Use concrete blocks **or** the Number Pieces app.
 | **Enrichment:** * Present some **word problems** that contain the addition of decimals. Then ask students to create their own addition story problems.
 |
| **Assessment:** -Gather the completed **assessment sheet**.**-** Record observations as you rotate around the room; noting how the students are doing. Assist as required. |
| **Teacher Reflection:** Pay attention to make sure studentsare not adding the tens with tenths incorrectly. – Ex: 0.9 +0.4=0.13. Review that 0.13 is 13 hundredths, **or** 1 tenth and 3 hundredths.Practice adding decimals.  |

Name Date

Use the Number Pieces app or Base Ten Blocks to Estimate and then Add.

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| **Adding Decimals to Tenths**1. Estimate each sum. a) 3.1 + 4.2 b) 1.4 + 0.9 c) 6.2 + 8.1 d) 3.4 + 6.62. Add. Use Base Ten Blocks to help you. a) 6.1 + 4.3 b) 1.4 + 5.3 c) 5.8 + 2.3  d) 1.8 + 0.9 e) 2.2 + 9.4 f) 4.8 + 4.8  |

Master 1.20

Pearson Tools can be used to demonstrate regrouping.





Hundredths Grids

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