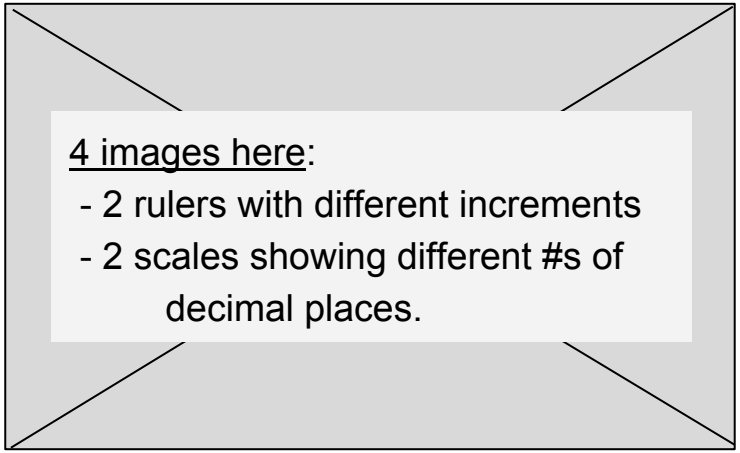
Main Menu

Counting Significant Figures (page 1 of 5)

Back Next

What are *significant figures*, and why do we need them?



	Student A	Student B	Student C
Ruler #1			
Ruler #2			
Scale #1			
Scale #2			

- ---------- Dynamic text ----------
- ---------- Dynamic text ----------
- ---------- Dynamic text ----------

"Dynamic text" provides incremental information referencing the images and table above.
(Potential voiceover)

Main Menu

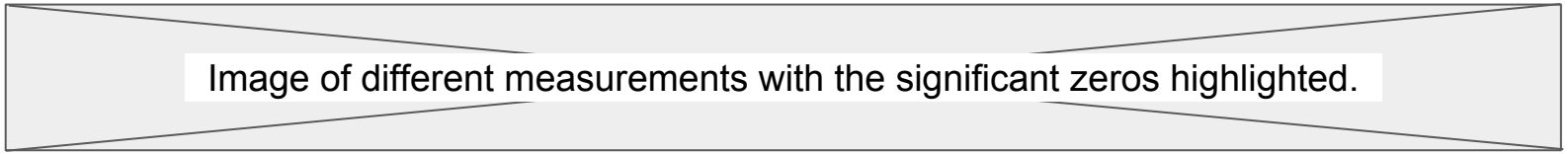
Counting Significant Figures (page 2 of 5)

Back Next

How do we identify the number of *significant figures* in a measurement?

- First rule: ---------- Text ----------
  - Examples: -----Value----- -----Value----- -----Value-----
    --#sig figs-- --#sig figs-- --#sig figs--

- Second rule:



Prompt - Why are the highlighted zeros significant? How can we spot them in a value?

Text box for student response.

Submit

Voiceover for this page?

Main Menu

Counting Significant Figures (page 2 of 5)

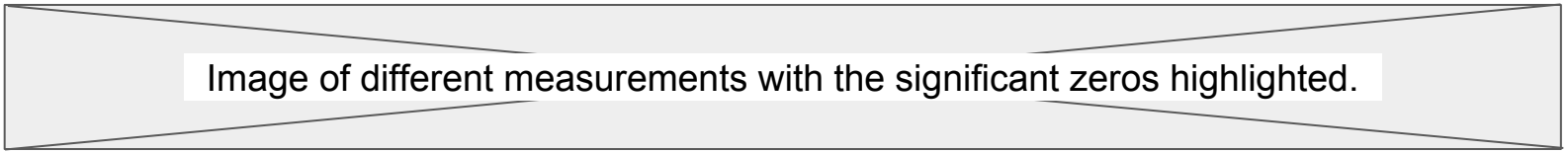
(After "Submit")

Back Next

How do we identify the number of *significant figures* in a measurement?

- First rule: ---------- Text ----------
  - Examples: -----Value----- -----Value----- -----Value-----
    --#sig figs-- --#sig figs-- --#sig figs--

- Second rule:



Prompt - Why are the highlighted zeros significant? How can we spot them in a value?

Student response: -------- From text box -------- (Key words highlighted)

Comparison: -------- Common student responses --------
-------- Common student responses --------
-------- Common student responses --------

Student compares & evaluates: Good Try again

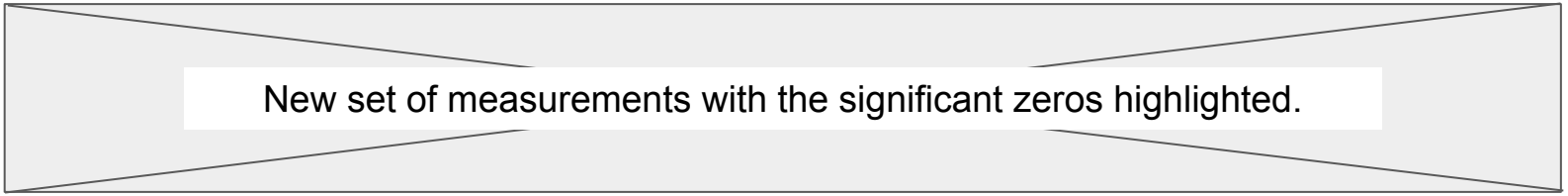
Main Menu

Counting Significant Figures (page 3 of 5)

Back Next

How do we identify the number of *significant figures* in a measurement?

- First rule: ---------- Text ----------
- Second rule: -------- Student response from page 2 (if 'Good' clicked) --------
- Third rule:



Prompt - Why are the highlighted zeros significant? How can we spot them in a value?

Text box for student response.

Submit

Voiceover for this page?

Main Menu

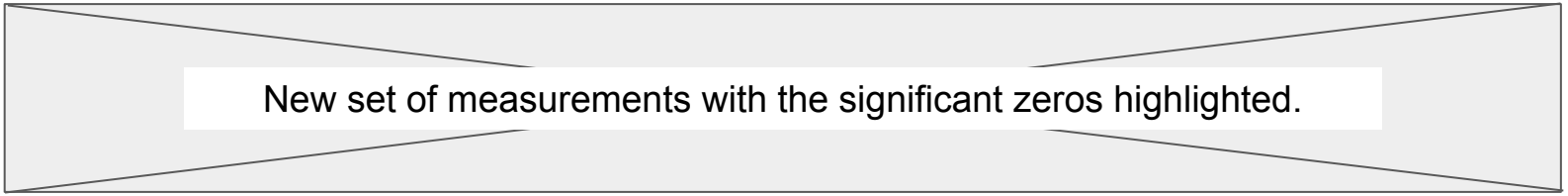
Counting Significant Figures (page 3 of 5)

(After "Submit")

Back Next

How do we identify the number of *significant figures* in a measurement?

- First rule: ---------- Text ----------
- Second rule: -------- Student response from page 2 (if 'Good' clicked) --------
- Third rule:



Prompt - Why are the highlighted zeros significant? How can we spot them in a value?

Student response: -------- From text box -------- (Key words highlighted)

Comparison: -------- Common student responses --------
-------- Common student responses --------
-------- Common student responses --------

Student compares & evaluates: Good Try again

Counting Significant Figures (page 4 of 5)

Back

How do we identify the number of *significant figures* in a measurement?

- First rule: ---------- Text ----------
- Second rule: -------- Student response from page 2 (if 'Good' clicked) --------
- Third rule: -------- Student response from page 3 (if 'Good' clicked) --------

Check Yourself - Identify the number of significant figures in each of the following:

A. 0.0030700 has [ ] significant figures, according to rules [ ].

B. 10,027,800 has [ ] significant figures, according to rules [ ].

C. 5.00 has [ ] significant figures, according to rules [ ].

Drop down menus that display the answers when clicked.

Choose your next step: Practice | Main Menu | Advanced Counting

Counting Significant Figures (page 5 of 5)

Advanced Counting Tasks (optional):

A. 10.00 g has four significant figures. Explain why. (Student response requested).

B. ---- Scientific Notation ---- (Notes and examples).

C. ---- Ambiguous zeros? ---- (Reference interactive table below).

Value	1 sig fig	2 sig figs	3 sig figs	5 sig figs
0.02000				
3000				

Choose your next step: Practice Main Menu Back

Voiceover for this page?