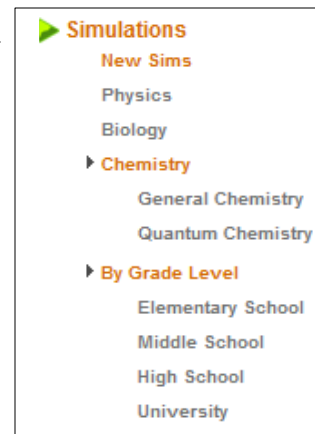
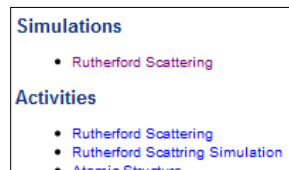


Ideas for Using Activities from PhET Teaching Ideas

(People have contributed activities to share- remember to cite the activities you use for ideas)

1. Find Activities:

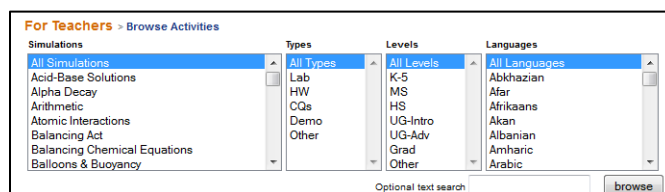
- Use PhET categories to find sims by topic or grade level. →
- Search using key words to find sims and activities that align to your topic.



- On any sim page, **scroll down** to find activities under Teaching Ideas

Title	Authors	Level	Type	Updated
Balancing Equations ★	Stephanie Davis	HS MS	Lab	9/28/11
Using PhET in High School Chemistry- all my activities in pdf ★	Trish Loeblein	HS UG-Intro	CQs HW Lab Demo	7/29/12
Balancing Chemical Equations ★	Jackie Esler	MS	Lab	7/30/11

- Use **For Teacher > Browse Activities** to search by sim, strategy, grade level, and language



2. Use your identified learning goals to extract pieces that are helpful:

- Compare your learning goals to the ones in the activity, then extract or modify pieces to meet your goals. Watch for:
 - Gold Star Activities ★ for guided inquiry use ideas. These have been identified to align with PhET Guided Inquiry Strategies
 - Tables, charts, and images that you can copy or easily adapt
 - Introductory ideas for helping students relate to the topic
 - Follow-up ideas for post activity discussion or explorations
 - Quantitative questions or directions that you want to make more qualitative
 - Slides that have Concept Questions you could use for large group discussions
 - Technical vocabulary that you might simplify to everyday language
 - Strategies to help students make sense with little direct instruction
 - Post-lab questions you could use during the activity for class discussion
 - Prescriptive directions that you can change to be open ended challenges
- If you are spending too much time trying to adapt what you find – STOP. List your learning goals and start your own activity.

3. Examples:

- Change Quantitative to Qualitative. *Before*: “Knowing the TOTAL force and the mass of the file cabinet, calculate its acceleration.” *Change to*: “Using the features in the sim, try to change the acceleration of the file cabinet. Write down the variables you changed and how they affected acceleration”
- Change the directions to be Challenges. *Before*: “Add water to your solution. a) Describe the change in color of the solution. b) Describe the change in bar graph.” *Change to*: “Try to find out all the things that you can change and what describe what you find.”
- Change scientific vocabulary to everyday language. *Before*: “What does adding solute do to concentration?” *Change to* “How does adding salt or water change the mixture?”