

Physical and Chemical Changes (30 XP)

When you are asked to explain your ideas, use the ACE strategy:

A = answer the question

C = cite evidence from the video or text

E = expand (provide more information)

A. Visit <http://www.wisc-online.com/objects/ViewObject.aspx?ID=SCE204>. (4 XP)

Define Physical Change:

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Define Chemical Change:

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B. Navigate to <http://www.learner.org/courses/essential/physicalsci/session4/closer1.html> (8 XP)

In your own words, explain the macroscopic and microscopic differences between physical and chemical changes?

	Macroscopic	Microscopic
Chemical Change		
Physical Change		

Give 4 examples of **physical change**

Give 4 examples of **chemical change**

C. Go to <https://db.tt/Orilo5IV>, and give one example of each type of change NOT mentioned before (2 XP)

D. Identify whether a chemical change has occurred in each scenario. Explain how you know. (16 XP)

Scientists took 15 ml of zip and mixed it with 50 ml of quig. The mixture cooled down to 4 degrees C, turned into an elastic-type substance, and took on a shiny glue-like appearance. They named their new product jorg. It tasted delicious.

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Scientists took a cube of rant and placed drops of fap on the top of the cube. The cube started to dissolve. A large hole was carved into the cube of rant and changed colors. It gave off an undesirable smell and did not taste good. They decided not to take it on their trip.

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Aliens from the planet Warnock took 50 ml of zap that weighed 50 grams and mixed it with 50 ml of lorn that also weighed 50 grams. The solution didn't mix well together. It started to fizz and bubble. The colors didn't mix well together. When they measured the new product, its volume was 100 ml and the weight was 98 grams. They named the new product tig and decided to mix it with the fluids they would drink on their way to Earth.

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Scientists took a bar of tuz and placed it into a container with 1 liter of brig. At first, the two substances didn't appear to mix well together. After 1 minute the bar of tuz started to melt. The container heated up and was hot to the touch. They named the new product wophi. The aliens took the mixture and placed it in a freezer. When they took it out of the freezer the substances of the product (tuz and brig) had separated. They kept the container at room temperature, and the tuz and brig soon melted together again. They turned the lights off to go home and the entire room filled with light coming from the wophi. They decided not to eat the wophi on their journey to Earth, but to use it instead as a night-light to help them see aboard their spacecraft in the dark.

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