50 IDEAS FOR FOOD SCIENCE FIZZICS EDUCATION

DON'T BE CONSTRAINED!

These investigations are just a starting point!

- Is there any research that you'd like to know about?
- What has been happening in your school?
- What has been happening beyond your school?
- What has made you say "Wow?" recently? •
- Don't be afraid to ask for materials & support
- Have fun!

INVESTIGATION QUESTIONS

- Watch a TED talk on the future of food
- Investigate dissolving sugars and concentration gradients using skittles
- vegan meat.
- Look at osmosis using gummy bears
- Create honeycomb and learn about the effect of heat on bicarbonate soda
- Make colour changing red cabbage juice pH indicator and test kitchen ingredients
- Learn why apples go brown when cut
- Research the uses of molecular gastronomy in modern kitchens
- over thousands of years to change crop yields
- Hold a debate on the use of preservatives in food
- Investigate how cells in potatoes respond to saline vs freshwater
- Make your own ice cream and learn about crystal formation over time



 <u>Create a podcast and interview students on their</u> thoughts on food

 Research how plant proteins are being used to grow
 <u>Compare the density & sugar content of different</u> soda drinks

- Teach a younger student a cooking skill
- Extract DNA from fruit
- Build a website with food science recipes using WordPress, Wix or Squarespace
- Find out the best temperature for yeast to grow
- Film a student making a procedural video on cookina
- Make cartoon about food science using <u>Toony Tool</u>
- Find out how people have used selection processes
 Create a 3D model of a carbohydrate or protein and print it
 - Mix up some edible slime
 - Grow salt crystals
 - 'Organic' food, what does that mean for food labels in your country?

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Make sherbet

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SO IDEAS FOR FOOD SCIENCE

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INVESTIGATION QUESTIONS

- Test foods for glucose and starch
- <u>Create a clay motion video on molecular</u> gastronomy
- through different ingredients
- Just what is a fruit or vegetable? You'd be surprised what people think!
- Find out about the distance your food has travelled to your school.
- Caramelize sugar in lemon juice as you create greeting cards
- Plant an edible garden
- Make a science song about digestion
- Create a YouTube channel about food science
- Write a poem about food chemistry
- Investigate the effect of detergent on animals fats using milk

- Investigate different careers in food science
- Write a book with complied ideas from students on their favourite recipes
- <u>Cook Baked Alaska</u> and learn about heat conduction
 <u>Link with another school for a shared food</u> science project
 - Grow rock candy sugar crystals
 - Weird food molecules; investigate stereoisomers in kitchen
 - Skype a food scientist
 - Create a new menu for the school canteen
 - Learn from a local chef about how they prepare ingredients
 - Write a blog article on food science
 - Make a science poster on food
 - Design a pizza box solar oven
 - Learn about electrolytes in fruit by making batteries

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MY NOTES

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