

#### **Information**



#### Common core icons



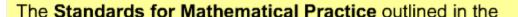
This icon indicates a slide where the Standards for Mathematical Practice are being developed. Details of these are given in the Notes field.



Slides containing examples of mathematical modeling are marked with this stamp.



This icon indicates an opportunity for discussion or group work.



Common Core State Standards for Mathematics describe varieties of expertise that mathematics educators at all levels should seek to develop in their students.

#### These are:

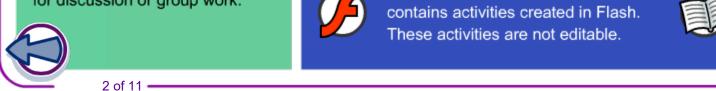
- 1) Make sense of problems and persevere in solving them.
- 2) Reason abstractly and quantitatively.
- 3) Construct viable arguments and critique the reasoning of others.
- 4) Model with mathematics.
- Use appropriate tools strategically.
- 6) Attend to precision.
- 7) Look for and make use of structure.
- 8) Look for and express regularity in repeated reasoning.



This icon indicates that the slide



This icon indicates teacher's notes in the Notes field.



#### Ice cream survey





How could Alex find an answer to his question?









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## **Gathering data**



Think of some questions you could answer by gathering information from the class.



How tall are the students in our class?

How many students in our class buy school lunch?

What is the favorite color of most students in our class?

Let's start by investigating Nicole's height question.

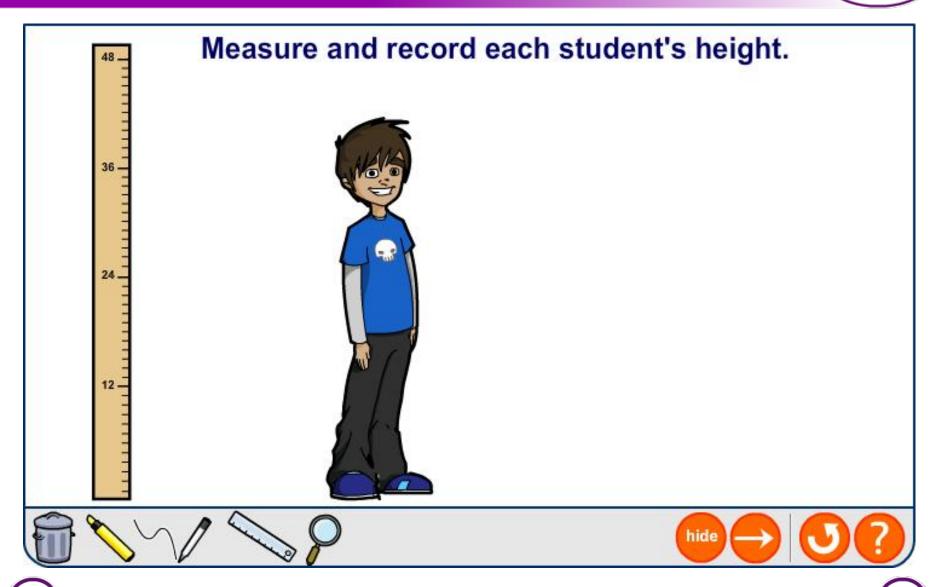




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# **Height investigation**





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### Line plot









How could we organize the information about the students' heights?











## Make your own line plot









Add your own labels and numbers to this line plot using the pen tool.

Drag the crosses into place to represent your data.

Press start to begin.

start











#### Picture graphs



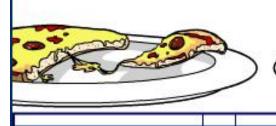


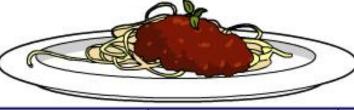


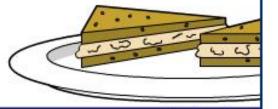


Nicole asked the students in her class how many times they ate school lunch last week. She recorded their answers:

How many times did you eat school lunch last week?















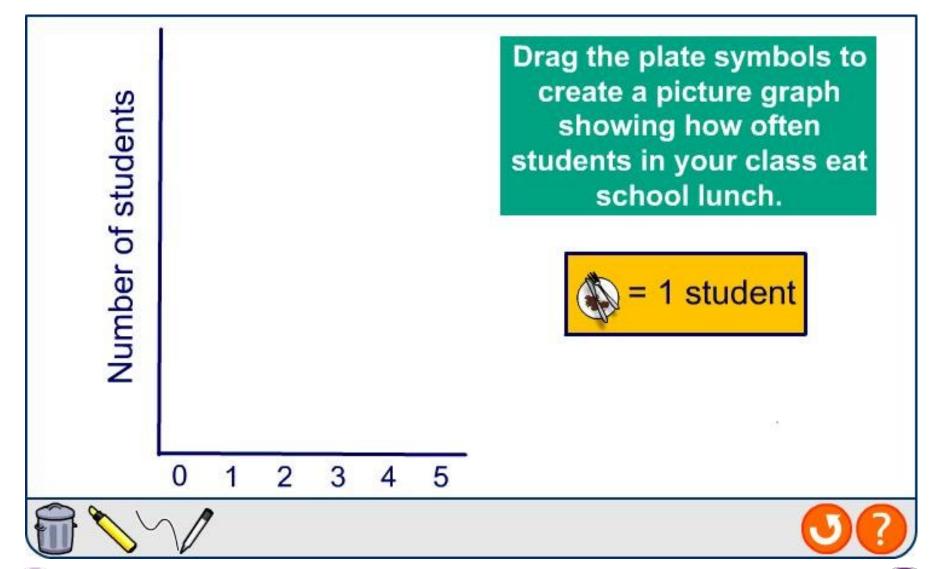


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# Make your own picture graph modeling



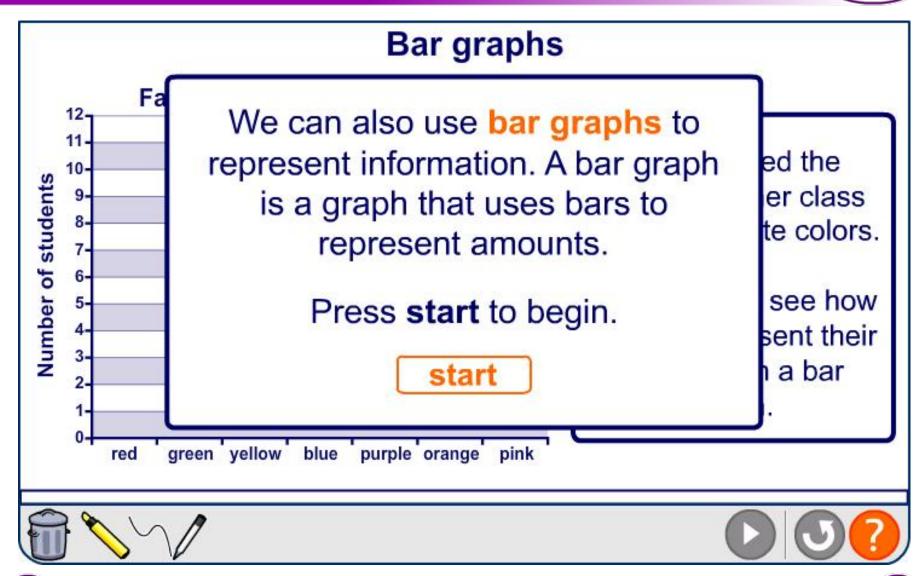




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### **Bar graphs**









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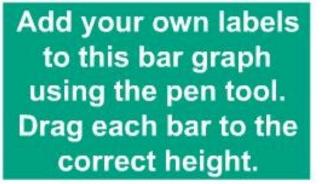
# Make your own bar graph modeling

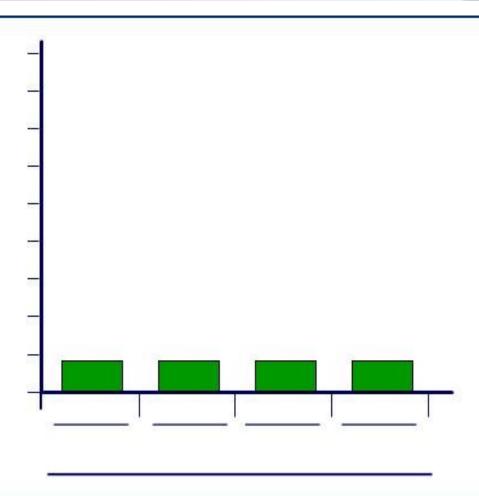


















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