

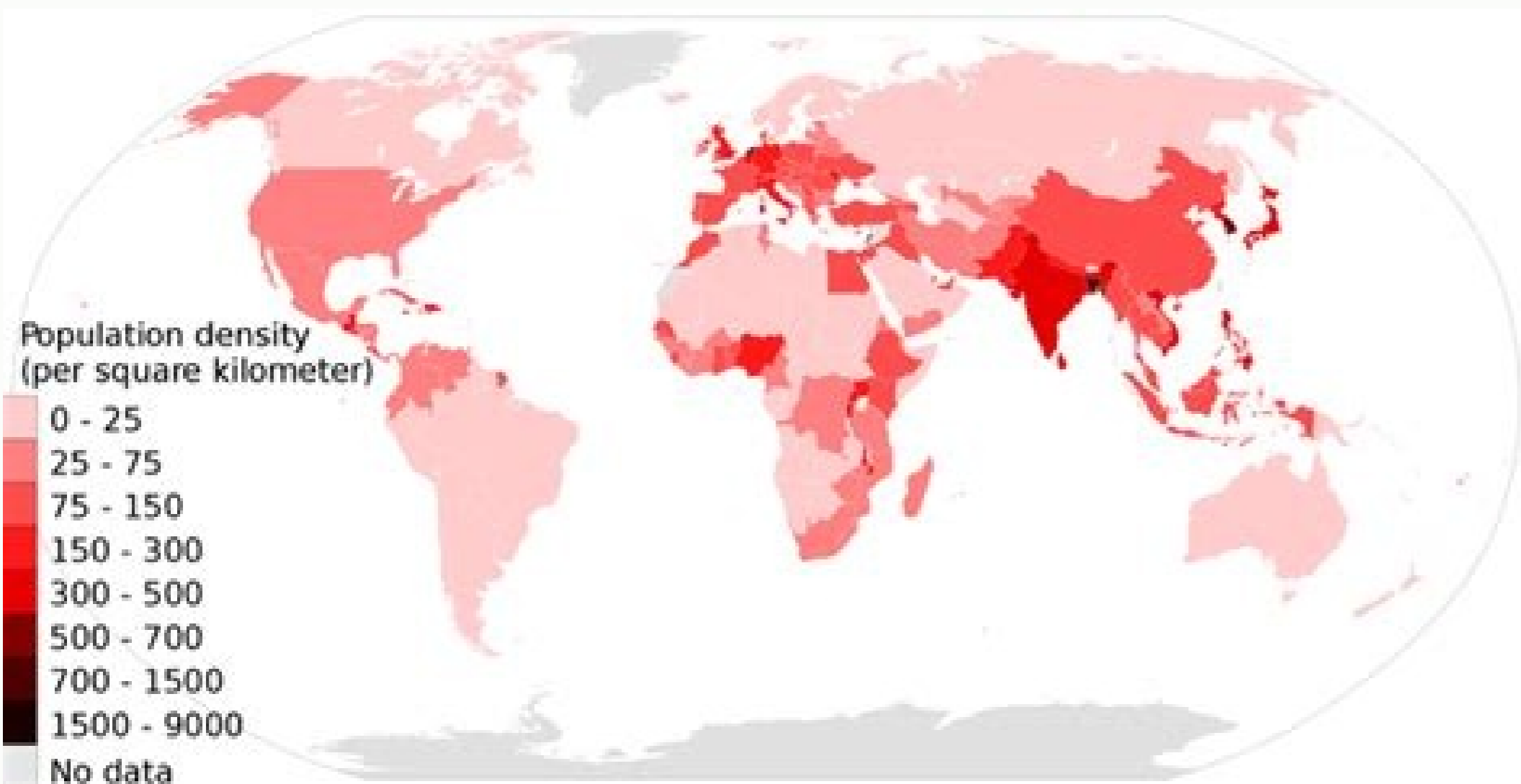
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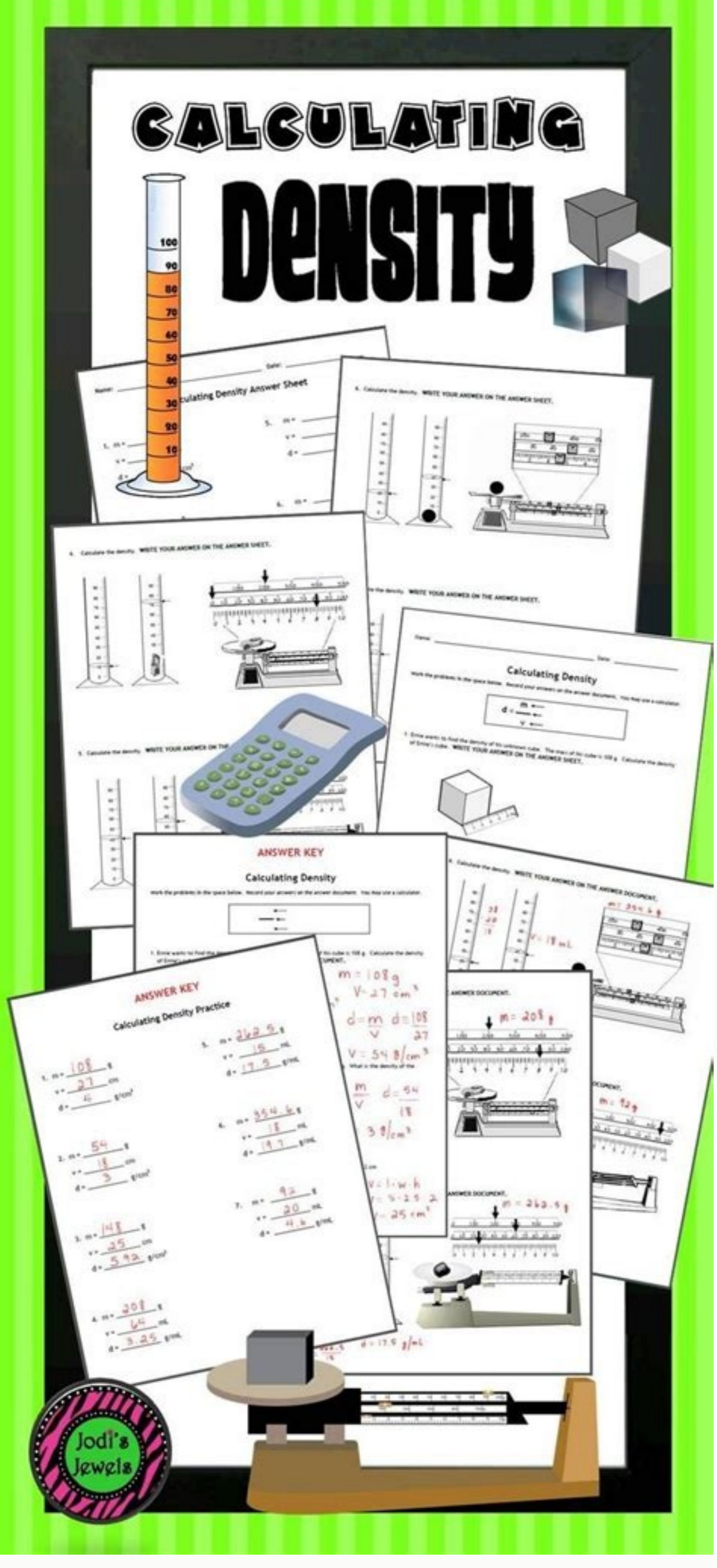
Worksheet 2

How to make your own volume calculations specific to your needs:

- A) **Determine effective rooting depth (8 inches for most plants) or pot depth.** 1a) _____(in)
 To convert to feet divide by 12 To convert to yards divide by 36
 feet _____(1b) yards _____(1c)
- B) **Determine the surface area (sq inches) of the pot or planter box.**
 square / rectangle _____ (2a) circle _____ (2a)
 length x width $3.14 \times r^2 = \pi \times r \times r$
 To convert to square ft divide (2a) To convert to square yards divide (2a)
 by 144 by 1,296
 _____(2b) _____(2c)
- C) Multiply (1a) by (2a) to get cubic inches of potting volume. (3a) _____ (in³)
 Multiply (1b) by (2b) to get cubic feet of potting volume. (3b) _____ (ft³)
 Multiply (1c) by (2c) to get cubic yards of potting volume. (3c) _____ (yd³)
- D) **Convert to gallons, if needed:**
 Divide (3a) by 231 Multiply (3b) by 7.48 Divide (3c) by 0.00495
 _____ (4a) _____ (4b) _____ (4c)
- E) **Obtain fertilizer rate from Table 5 or the soil test report.**
 Pounds per acre Pounds per 1,000 sq feet Pounds per 100 sq feet
 _____ (5a) _____ (5b) _____ (5c)
- F) **Determine fertilizer weight needed for area specified.**
 Pounds for square inches: Pounds for square feet: Pounds for square feet:
 Divide (5a) by 6,272,640 Divide (5b) by 43.56 Divide (5c) by 4.356

 then multiply by 2a then multiply by 2b then multiply by 2b
 _____ (6a) _____ (6b) _____ (6c)
- G) **Convert to ounces**
 Multiply 6a by 16 (ounces per pound) (7a) _____ ounces
 Multiply 6b, or 6c, by 16 (ounces per pound) (7b) _____ ounces
- H) **Obtain fertilizer density (refer to Table 2).** oz/cup _____ (8a) oz/pint _____ (8b)
 Multiply 8a by 2 to get oz per pint
- I) **Determine cups of fertilizer needed:** Divide 7a by 8a Divide 7b by 8a
 _____ (9a) _____ (9b)
- J) **Tablespoons of fertilizer** Multiply 9a by 16 Multiply 9b by 16
 _____ T (10a) _____ T (10b)
- K) **Teaspoons of fertilizer** Multiply 10a or 10b by 3





Overly An object has a volume of 24 mL and a mass of 48 g. Find the density of the object.

Show your work here -

M= _____
V= _____

Happy Find the density of the object below.

Show your work here -

M= _____
V= _____

Now A cube has a side length of 3 cm and a mass of 18g. What is the density of the object?

Show your work here -

M= _____
V= _____

Density Worksheet

Name _____
Class Hour _____

- Define mass?
- Define volume?
- Define density and show the formula for calculating density.
- Why does changing the shape of an object have no effect on the density of that object?
- Aluminum is used to make airplanes. Cast iron is used to make weightlifting equipment. Explain why the densities of these metals make them useful for these purposes?
- What is the density of water? Remember for water 1g=1ml=1cm³
- Why does an air bubble rise to the surface of a glass of water?
- Calculate the densities of the following objects. **Remember to place units after each number.**

Object A length = 6cm width = 3cm height = 1cm mass = 36g
volume = _____ density = _____

Object B length = 10cm width = 5cm height = 2cm mass = 300g
volume = _____ density = _____

Object C Use the water displacement method to determine the density of object C (silly putty).
initial water level in graduated cylinder = 25ml
final water level after placing silly putty into graduated cylinder = 29ml
mass of silly putty=8g

This lesson includes 55 additional questions for subscribers. Last updated 22 February 2018. A range of single and multi-step density calculations with answers. Suitable for GCSE or equivalent. Feedback welcome. Creative Commons "Sharealike". Select overall rating (no rating). Your rating is required to reflect your happiness. Write a review. Update existing review! It's good to leave some feedback. Something went wrong, please try again later. cheers. Empty reply does not make any sense for the end user. Brilliant just what I needed! Thank you for sharing and saving me a lot of time. Empty reply does not make any sense for the end user. Nice resource that saved me a lot of time. Used with my Year 10 classes after completing the required practical. Empty reply does not make any sense for the end user. Empty reply does not make any sense for the end user. Report this resource to let us know if it violates our terms and conditions. Our customer service team will review your report and will be in touch. Live worksheets > English > Science > Density > Density. Problems Finish!! Please allow access to the microphone. Look at the top of your web browser. If you see a message asking for permission to access the microphone, please allow. Close. Last updated 15 September 2018. Presentation and worksheets. Creative Commons "Sharealike". Select overall rating (no rating). Your rating is required to reflect your happiness. Write a review. Update existing review! It's good to leave some feedback. Something went wrong, please try again later. Excellent sheet. Thank you. Empty reply does not make any sense for the end user. Great, thank you. Empty reply does not make any sense for the end user. Empty reply does not make any sense for the end user. Very to the point. Empty reply does not make any sense for the end user. Report this resource to let us know if it violates our terms and conditions. Our customer service team will review your report and will be in touch.

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