

## SPECIFIC HEAT WORKSHEET

**Specific heat** is the quantity of heat required to raise the temperature of one gram of a substance by one Celsius degree.



$$Q = m c \Delta T$$

where  $Q$  = heat energy,  $m$  = mass, and  $\Delta T$  = change in temp.  
Remember,  $\Delta T = (T_{\text{final}} - T_{\text{initial}})$ .

### Directions : calculating specific heat

1. A 15.75-g piece of iron absorbs 1086.75 joules of heat energy, and its temperature changes from 25°C to 175°C. Calculate the specific heat capacity of iron.

$$C = \frac{Q}{m(T_f - T_i)} = \frac{1086.75}{15.75(175-25)} = 0.46 \text{ J/g}^\circ\text{C}$$

2. How many joules of heat are needed to raise the temperature of 10.0 g of aluminum from 22°C to 55°C, if the specific heat of aluminum is 0.90 J/g°C?

$$Q = mC(T_f - T_i) = 10.0\text{g} (0.90\text{J/g}^\circ\text{C})(55-22) = 297 \text{ J}$$

3. Calculate the specific heat capacity of a piece of wood if 1500.0 g of the wood absorbs 67,500 joules of heat, and its temperature changes from 32°C to 57°C.

$$C = \frac{Q}{m(T_f - T_i)} = \frac{67500 \text{ J}}{(1500 \text{ g})(57-32)} = 1.8 \text{ J/g}^\circ\text{C}$$

4. 100.0 g of 4.0°C water is heated until its temperature is 37°C. Calculate the amount of heat energy needed to cause this rise in temperature.

$$Q = mC(T_f - T_i) = 100\text{g}(4.184\text{J/g}^\circ\text{C})(37 - 4) = 14000 \text{ J}$$

5. 25.0 g of mercury is heated from 25°C to 155°C, and absorbs 455 joules of heat in the process. Calculate the specific heat capacity of mercury.

$$C = \frac{Q}{m(T_f - T_i)} = \frac{455 \text{ J}}{(25\text{g})(155-25)} = 0.14 \text{ J/g}^\circ\text{C}$$



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web apr 24 2019 there is an international consensus that disaster education programs for children will improve the preparedness and resilience among children and families against disasters the evidence is well documented in the hyundai document during 2005 2015 according to the results of some studies people never forget what they learn at an

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web feb 5 2018 highlights children are resources to be cultivated and mobilized for disaster preparedness response recovery and resilience children s participation yields numerous potential benefits for children including enhanced personal development and skills self efficacy and interpersonal relationships children s

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web this comprehensive set of resources contains interactive activities to plan and prepare for disasters developmentally appropriate books and games to help children cope after disasters and state templates and guides for policy makers to use in developing enhancing or improving their state plans

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web mar 9 2015 all adults who are responsible for the care of children should be prepared for disasters this guide provides caregivers educators and program staff with preparation tips and step by step responses to disaster situations that are based on national standards and best practices to keep children safe

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web charlotte hendricks and michele pettibone have prepared an essential resource to help parents and programs assess their risks respond to disaster situations and plan and prepare one hopes to never need this book but read it prepare with it and keep it nearby just in case

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web engaging children through education preparedness and resilience programmes children are already playing an active role in reducing disaster and climate risk by developing risk assessments early warning systems community based actions school evacuation protocols and recovery plans

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web feb 6 2015 first you need to completely prepare your kids to be aware of the presence of possible intruders advice your kids to keep all doors and windows locked and close the blinds and curtains tell your kids to turn on the television or radio afterwards to scare potential intruders away before they break into your home

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web ready kids ready national public service campaign educates and empowers people to prepare for respond to and mitigate emergencies including natural and man made disasters the ready kids site provides resources for families educators and organizations supporting children in their learning about disasters see also what

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web planning and preparation for emergency and disaster are important for these reasons planning minimizes the likelihood of injuries and death of children who are particularly vulnerable in disasters preparation can minimize psychological impact trauma and promote resilience in children and adults

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web apr 1 2019 there has been a rise in the number of school based disaster risk reduction drr programs that engage children in disaster mitigation and preparedness activities such as hazard identification drills evacuation planning home adjustments and risk communication pfefferbaum et al 2018

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web oct 7 2019 glossary of terms emergency preparedness manual for early childhood programs programs can use this manual as a guide for their emergency planning process find the latest tools and resources to support children families and communities before during and after an emergency

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web may 19 2023 ece providers can play a role by planning and preparing for emergencies protecting young children by caring for them during emergencies and by helping children cope and recover after an emergency learn about cdc resources to prepare for emergencies and care for children in disasters children in disasters teachers and

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web nov 22 2022 disaster preparedness overview infants children and adolescents have unique needs that must be

considered in disaster management efforts pediatricians and others who may care for children have key roles to play in disaster preparedness response and recovery to ensure these unique needs are met

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web mar 21 2014 planning for the specific needs of children and families in response to disasters including functional needs nutritional needs family reunification and temporary child care is extremely important when thinking about community plans these specific needs are discussed throughout this chapter in addition to real world experiences that

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web nov 1 2015 the unique needs of children mandate specialized and appropriate planning for disasters children differ from adults in physiology developing organ systems behavior emotional and developmental understanding of and response to traumatic events and dependence on others for basic needs

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web national preparedness month npm is a time to practice your emergency drill it s a time to plan and prepare should a disaster strike and it s also an opportunity for families to learn the best ways to secure their homes and protect

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web preparedness making your emergency response plan tip sheet 14 evacuation response in centers and worksheet 18 evacuation response in family child care homes 21 how to build an emergency kit 22 practice your plan 22 reunification procedures 23 reunification procedures worksheet

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web nov 8 2023 an emergency may be a catastrophic natural event like a hurricane flood or wildfire or a man made disaster such as a shooting no matter the crisis early childhood programs need to be ready with impact relief and recovery plans preparing for emergencies with mental health in mind