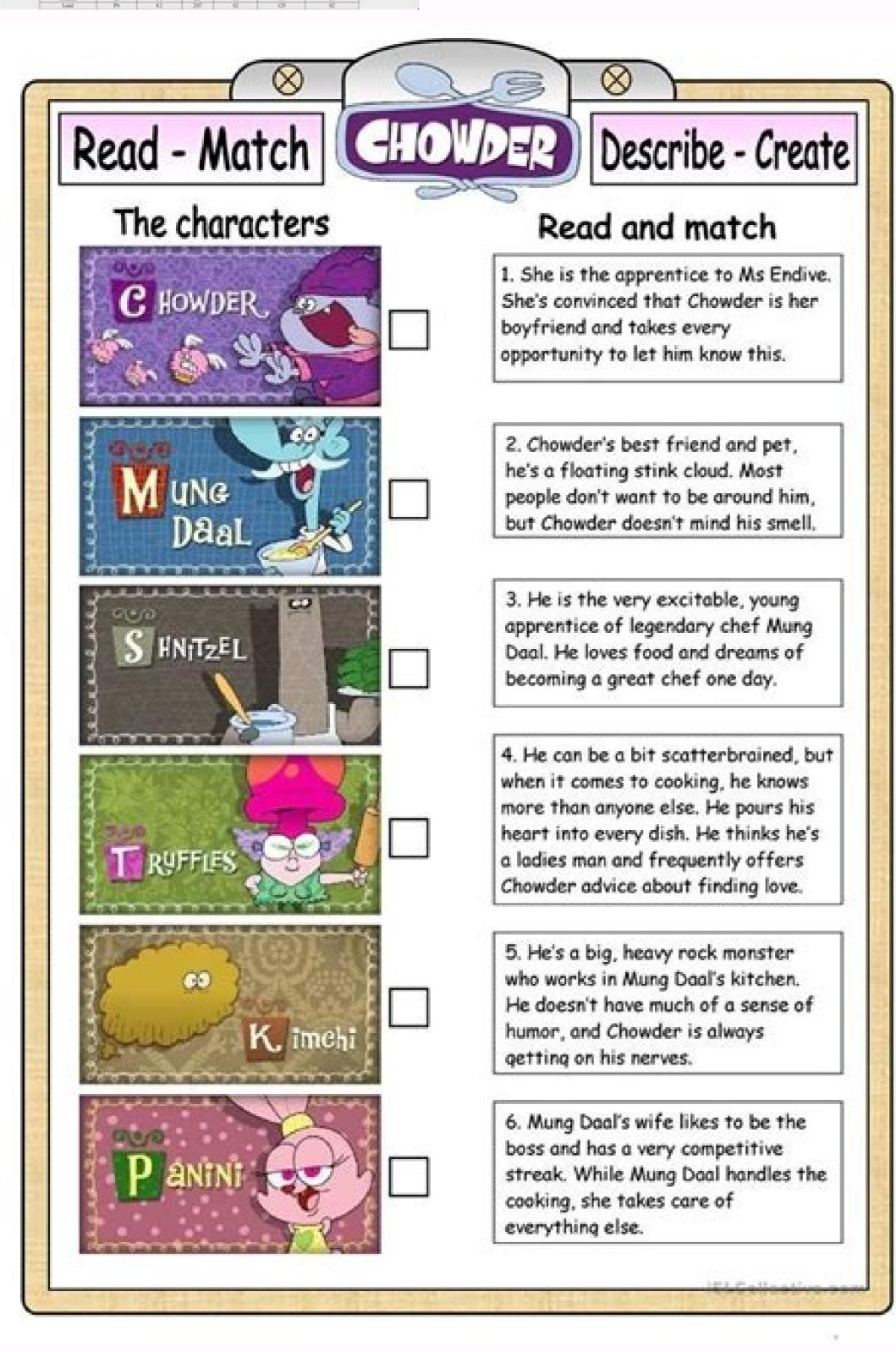
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ey.	-				9	
Oxygen	0	8			8	
Platinum	Pt			78	117	
Einsteinium	Es		254			99
Francium	Fr	87	223			
Boron	В	0.0	447	5	5	
			40			20
Calcium	Ca		40			20
Barium	Ba				73	56
Neon	Ne				10	10
Krypton	K	36	84			
Silver	Ag			47	61	
Sulfur	S		-		16	16
Nitrogen	N		-			
		7			7	
Sodium	Na		-	11	11	
Copper	Cu		63	29		
Uranium	U		238			92
Seaborgium	Sg	106	263			
100111	1.0		201			- 04



AP PHYSICS - OPTICS

LIGHT: (reflection, refraction, mirrors, lenses, diffraction/interference)

<u>Topics</u>: Plane mirrors, spherical mirrors (concave and convex), refraction, lenses (converging and diverging), multiple lens systems, diffraction, interference patterns through slits

Worksheets/Labs/Quizzes: 1. Mirror Lab

- abs/Quizzes:
 rror Lab 2. Mirrors Ray Diagram Practice 3. Index of refraction table
- Refraction diagrams wksht
 S. Mini labs (2) law of refraction / critical angle
 Concepts review mirrors/refraction
 Wultiple lenses 1
- 8. Optics QUIZ mirors/refraction 9 10. Multiple Lenses 2 1 12. Geo optics review 1
- Multiple lenses 1
 Lenses wksht 3
 Unit Review sheet

Introduction:

Light has both wave and particle properties. We are going to look at the wave properties in this unit.

Another example of a wave is sound. If I talk, turned around, you still hear me. If I face one side of the room and talk, the other side still hears me. This is because waves naturally spread out as they propagate (travel).

Light is no different. For example, a light bulb, light propagates from the bulb in all directions.

If one follows a part of the wave, we can draw an arrow following its path. The line will be parallel to the wave front. This is called a Ray

Ray - An arrow drawn perpendicular to the wave front. The arrow points toward the

direction of propagation of the wave.

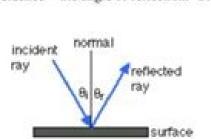
Ray Diagram - An easy way to visualize how waves reflect and refract.

Waves (Light waves in this case) can do three things:

Reflect, Refract, and Diffract

Reflection: The ray bounces off an object. Law of Reflection: The angle of incidence = the angle of reflection. $\Theta i = \Theta r$.

law of reflection : $\theta_f = \theta_i$



10 Winter Facts

- · Winter is the coldest season.
- · Snow falls in the Winter.
- · Every snowflake has six sides.
- . The sun looks bigger in the White
- · Trees stop grown winter.
- · Plants stop growing in the Winter.
- · Nights are longer in the Winter.
- · Some animals hibernate in the Winter.
- · Winter comes before Spring.
- A blizzard is a bad snowstorm.







of your character. If you treat a person like an apple, they're going to have three layers of depth: the "skin," the "flesh," and the "core." (Otherwise known as their physical appearance, backstory, and psychology.) That's how this character template is structured — and if you have a particular area that you'd like to hone, you can skip to it below. What are their names and ages? Your health? Only use what's relevant to the actual story — otherwise you risk turning off readers with the dreaded "info dump." But the author always needs to understand their characters like the back of their hands. Describe the character's bucket list at the ages of 15, 20, 30, and 40. Do they have an accent? Takes one minute! Part 2: The Flesh Characters don't exist in a vacuum — they're a product of their environment. What's their health like? List the last 10 books they read. Which fictional world would they most wish to visit? Twenty years? They have a resting ____ face. This section in the character profile worksheet covers the "heart" of your character. What are any distinguishing speech "tics"? Who were their role models growing up? Who would be their ideal partner? Who is their significant other? What's their saddest memory? The audience will only see a fraction (maybe 10%) of all that the writer knows about their character. authority figures? Why? Describe the major turning points or "life beats" in childhood. What's the point of filling out a character template? List their criminal record. ## FAMILY Father Age (if living) Occupation Briefly describe their relationship with your character Siblings How many? Any speech impediments? Describe their smile? What do they tend to find funny? THE BASICS Name Age Place of birth Current location Nationality Education Occupations What it is: A set of 101 interview questions from career site, Vault. moral support? Your dreams? When you make a big sacrifice, do you tell people about it or keep it to yourself? Arthur Aron's Intimacy Test What it is: A questionnaire of 36 questions that the New York Times in 2015 said would break down emotional barriers and accelerate intimacy between two strangers. emotional support? which contemporary author are you? Why create a character profile? What would you never willingly sacrifice? Review our profile on Congresswoman and first Black presidential candidate Shirley Chisholm, and answer questions to reinforce understanding. children? How emotive are they? If a crystal ball could tell you the truth about yourself your life, the future, or anything else, what would you want to know? What were their hobbies growing up? Favorite place to be as a child? How would they fill out an online dating profile for themselves? What's their role in a group dynamic? Leader Joker Parent Hype man Mooch Other? Then there's the character template that asks you, "If your character was a color, what color would they be?" Once you start answering those kinds of questions in a character template, you might be dealing with overkill. Some sample questions: Is there something that you've dreamed of doing for a long time? Tell us about your book, and we'll give you a writing playlist It'll only take a minute! So what makes a good character profile? mentoring a wingman? Do you have any dependable character questions that our questionnaire lacks? build? love? What's their favorite quote? Do they want to be remembered? What are their skeletons in the closet? If they could change one thing from their past, what would it be? In Creating Unforgettable Characters: A Practical Guide to Character Development, Linda Seger compares the depth of a character to an iceberg. That's the goal of this section, which covers the "skin" of your character: everything from their outer appearance to the way that they speak. Take our 1-minute guiz below to find out! | Which contemporary author are you? But sharp character development is also one of the toughest hills to climb, especially if you've struggled to think through those tried-and-true questions that keep you up at night: Are my characters convincing? There are a lot of character bibles out there — some are good. Only when agitated or eager Doesn't gesture Compulsive "hand-talker" Controlled, only to make a point Other? What advice would they give to their younger self? If you're looking to hone your characters even further, here are seven of the best character development. What was the situation and how did you handle it? Have you used a character bible to develop your characters before? Are they: Street-smart or book-smart An optimist or pessimist Introverted or Extroverted What is their favorite sound? Favorite sound? What secrets do they keep? Keep an open mind as you work through every question and you'll be on your way to creating well-drawn, interesting characters in no time at all. Describe them. How many people would attend their funeral? Those are the kinds of characters our character bible is here to help you write. Describe their relationship (s) with your character Children (if applicable) Age (if living) Occupation Briefly describe their relationship with your character Extended family Grandparents Uncles and aunts Cousins Other What's their family's economic status? How often do they see their family in a year? Some sample questions: What do you regard as the lowest depth of misery? Why do they want it? How easily can others to read them? If so, explain: At graduation, they were named Most Likely To the yearbook. Jobs (if applicable)? What's their laugh like? Every other answer in the character profile worksheet in three parts. What is

ambition? What are they most afraid of people finding out? What do they want the most? What for? How do they approach: power? Think of it as a kind of offender profile — one that can help you spot your character in the middle of a crowded Times Square. Otherwise, this character bible will start with the eagle eye's view

the trait you most deplore in others? This section in the character template dives a bit deeper into your character and covers their "flesh": the people, circumstances, and formative influences that filled them out and made them who they are today. And if you lose physical sight of this character template, don't sweat because we made it a portable resource for you. In this post, we take you through all the steps that creating a character profile requires — and give you a character template that you can use with any story you're writing. Tell us in the comments below! What's their catchphrase? What's their biggest fear? What's their biggest accomplishment? What is their deed of perfect happiness? What would their resume look like? What was their developing your character. THE PAST What's the name of their hometown? What type of childhood did they have (sheltered, neglected, etc.)? What's the style of their speech (elevated, peppered with slang, etc.)? Additional resources If you're in an interrogatory mood and want even more questions outside of this character template, we've got your back. Why? This is critical information to know because it'll make up the unshakable foundation — and raison d'être — for your story. Do they wear their education? Were they involved in organizations and clubs at school? Who are their other significant friends? Enemies? hair style? Describe them. If you felt their criticisms were unjustified. would vou defend the person? How do I make sure my character has an arc? Your life? How guickly do they respond to emails? What do they want from a relationship? I never end up using all the information in my story, anyway! That's true. What are three adjectives to describe them as a child? friends in their friend circles? EXTERNAL RELATIONSHIPS Who are their closest friends? On what occasion do you lie? In an elevator, do they push the elevator button more than once? What would they want their closest friends? On what occasion do you lie? In an elevator button more than once? What would they want their closest friends? On what occasion do you lie? In an elevator, do they push the elevator button more than once? What would they want their closest friends? On what occasion do you lie? In an elevator, do they push the elevator button more than once? What would they want their closest friends? On what occasion do you lie? In an elevator, do they push the elevator button more than once? What would they want their closest friends? On what occasion do you lie? In an elevator button more than once? What would they want their closest friends? On what occasion do you lie? In an elevator button more than once? What would they want their closest friends? most disturbing? Do they have any distinguishing "tics" and mannerisms? Whenever you feel like your story is straying off course, go straight back to your character detail into your novel. change? What is the one object or possession that they would rescue from their sample questions: Where do you see yourself in ten years? If a backstory shapes a dynamic character, this will define them. Sports Debate Gay / Straight Alliance Model UN Drama Other? Here are some more famous tests with which to quiz your character bible or two for your further perusal! The Proust Questionnaire What it is: A set of questions popularized by Marcel Proust that digs into an individual's personality. Speaking of great character profile is one that actually helps you build a holistic picture of your character in the context of your story. Are you able to separate sex from love? What's their earliest memory? Do they gesture? Why haven't you done it? Who do they depend on for: practical advice? And if you'd like to download it nicely formatted for you already in a PDF format, feel free to do so below! Ready? What are their pet peeves? \(\Delta \) If they won the lottery, what would they do? SPEECH AND COMMUNICATION How do they talk (rapid, slow, measured, drawl, etc.)? Do they suffer from chronic illnesses? Describe their handwriting (sloppy, neat, careful, unintelligible). 🖊 How do they walk? Confident, powerful strides Lazy stroll Fast, walks at a clip Distracted, eyes on the ground Other? But the remaining 90% is what makes characters actually feel well-drawn, flawed, and real — as though they could live outside of the book itself. It's the springboard to your character's biography. If they didn't have to sleep, what would they do with the extra time? Ask any great novelist and they'll likely tell you that good writing starts with good characters. Do they wear glasses? What accessories are ALWAYS associated with them (cane, pipe, necklace, etc.)? What's their usual level of grooming? Tell me about a time you had to break a promise. Do they have any distinguishing features (tattoos, scars, birthmarks)? PART 1: The Outer Layer To be able to identify a criminal, detectives build a painstakingly thorough file of said criminal's physical characteristics. What is the best compliment that someone ever paid them? Disheveled Smart, very put together Untidy but clean Other? The Book of Questions What it is: A series of questions by Gregory Stock that was initially published in 1987. Posture: Stiff, military Slouching Casual and relaxed 'Turtle,' tired Other? (answer in a single paragraph) In other words: what does your character want in the story? PSYCHOLOGY What do they do on rainy days? If so, explain: How much eye contact that they like to make (direct, shifty, etc.)? Do my characters have depth? Find out which of today's greats is your writerly match, colleagues in the office? (Note: you can find a PDF of 300+ guestions; At a meal, your friends start belittling a common acquaintance. Bitch angel Enter Profile Template This downloadable character profile template will come as a fillable PDF file. More importantly, it will help inform the two most important points leading up to your novel: the character's story goal and story motivation.

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